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North Carolina

INSECTICIDE REPORT

for 1961



THE BULLETIN

of the

North Carolina Department of Agriculture

L. Y. BALLENTINE, *Commissioner*

Number 168

May, 1962



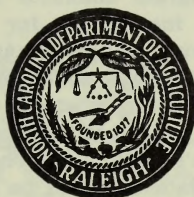
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North Carolina

INSECTICIDE REPORT

for

January 1 - December 31, 1961



THE BULLETIN

of the

North Carolina Department of Agriculture

Raleigh, N. C.

L. Y. BALLENTINE, *Commissioner*

JOHN L. REITZEL, *Assistant Commissioner*

E. W. CONSTABLE, *State Chemist*

Number 168

May, 1962

ABOUT OUR COVER PICTURE

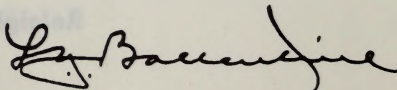
One of the most significant developments in cotton production in recent years is the insect-control program inaugurated by N. C. State College last year. Developed by Dr. Walter J. Mistic, the program is designed to prevent boll weevil infestation, instead of waiting to treat infestations after they appear.

Briefly the program consists of beginning treatments when the cotton has reached the eight-leaf stage, repeating treatments three times at five-day intervals. Our cover picture shows one of these early applications. These four applications on the young cotton prevent reproduction by over-wintered weevils. Four later treatments, starting on July 24, are recommended to ward off migratory weevils.

The simplicity of the program enhances its value. Farmers have a choice of 10 recommended insecticides for the applications. No new equipment is involved, although farmers must select the proper nozzles for the applications. The program includes one mid-season application for control of boll worms and recommendations for control of spider mites and thrips. Recommended application dates are the same for the entire state, adding to the program's simplicity. These dates were chosen after studying years of research data collected on the boll weevil's life cycle.

A survey after limited use of the program last year indicated that it had added \$8.5 million to the state's cotton income. Ninety-five percent of the farmers who tried the program were sold on it. This year a number of the larger cotton-producing counties or areas are launching all-out efforts for 100 percent participation in the program.

Previously cotton growers have been gambling on giving at least 10 percent of their cotton crop to the boll weevil—considerably more in wet seasons when treatments of infestations are immediately followed by rain. This new program meant millions of dollars to farmers last year and will save more millions as its use is expanded.

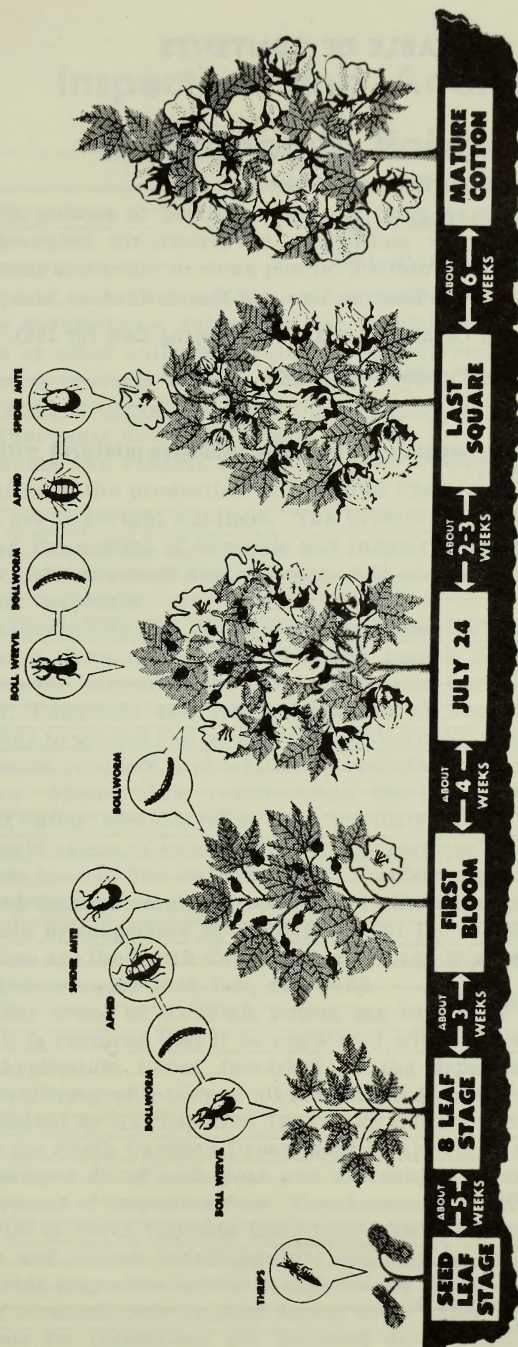


L. Y. BALLENTINE

(Photo by Ralph Mills, N. C. State College)

A PRACTICAL COTTON INSECT CONTROL PROGRAM

Timing of insecticide applications based on recommendations of North Carolina State College



On July 24, resume applications at 5-day intervals until plants stop squaring. The number of applications required will vary with date of plant emergence and fertility and moisture conditions.

During this period when regular applications are not scheduled, make 1 application whenever 5% of the squares have been injured by small bollworms.

At 8-leaf stage, begin 4 applications at 5-day intervals.

TABLE OF CONTENTS

	<i>Page</i>
About Our Cover Picture.....	2
Inspection and Analysis of Economic Poisons.....	5
Brief of North Carolina Insecticide Law.....	7
Economic Poisons Registrants, 1961.....	9
North Carolina Aerial Crop-Dusting Law and Regulations.....	20
Licensees Under North Carolina Aerial Crop-Dusting Law for 1961.....	26
Summary of Economic Poisons Examined.....	32
Decisions	33
Analysis Tables (Each heading in this table indicates mixtures with other materials also)	
Aldrin	34
Arsenicals	36
BHC	39
Boric Acid	48
Captan	48
Chlordane	48
Copper	54
2,4-D Compounds	55
DDD	56
DDT	59
DDVP	77
Dieldrin	77
Endrin	79
Ferbam	82
Fluorine Compounds	85
Fumarin	87
Heptachlor	87
Korlan	88
Malathion	88
Maneb	95
Methoxychlor	96
Methyl Parathion	102
Nemagon	102
Paradichlorobenzene	102
Parathion	103
Perthane	103
Pivalyn	104
Pyrethrins	104
Rotenone	107
Sabadilla	116
Sevin	119
Silvex Compounds	120
Thallium Sulfate	120
Thiodan	121
Toxaphene.....	121
Warfarin	132
Zineb	133
Miscellaneous Inorganic	133
Miscellaneous Organic	134

Inspection and Analysis of Economic Poisons

Economic poisons or pesticides cover a large number of materials and mixtures intended for destroying, controlling or repelling pests such as insects, weeds and other noxious plants, predatory animals and birds, soil-infesting pests such as nematodes, algae, snails and bacteria. Other examples are disinfectants, antiseptics and fungicides for use other than on living man or other animals, defoliants, various repellents, fly paper and other adhesive products whose action goes beyond simple mechanics, moth proofers, wood preservatives other than common paints, mildew controls, and seed fumigants and disinfectants.

An adequate and reliable supply of these products is as indispensable as is fertilizer in the production of food and fiber crops. Weed killers and defoliants are important adjuncts. The preservation of many products in storage and the control of domestic and industrial pests which affect both the health and welfare of human beings and animals are likewise dependent on such materials.

While encouraging the development and distribution of reliable products to serve these needs, and with due regard for public health and welfare, it is the purpose of the economic poisons laws (the North Carolina Insecticide, Fungicide and Rodenticide Act of 1947, G. S. Article 4A, Chapter 106) to protect the public from adulterated, misbranded, worthless and dangerous products, and legitimate manufacturers from unscrupulous competition. Among other requirements, the law authorizes inspections, analyses of official samples taken from products offered for sale within the state and publication of results. With other pertinent information, there is given in this issue of The Bulletin a list of registrants, a summary of registrations and detailed results of analyses of official samples taken throughout the state by inspectors of the department for the calendar year 1961. Included also are the North Carolina Aerial Crop-Dusting Law, regulations and registrants under that law, for 1961.

Before any brand of economic poison can be legally offered for sale in the state, it is required that it be registered with the Department of Agriculture. Application forms, furnished by the department, must be submitted in triplicate with copy of all labeling and claims. Applications must be accompanied by an inspection fee of ten dollars per brand and grade, payable to the North Carolina Department of Agriculture. All registrations expire December 31 of each year and are subject to re-registration with annual payment of inspection fees. Requirements are given in fuller detail in the "Brief of North Carolina Insecticide Law" on pages 7 and 8. Copies of the law and related regulations are available on request.

A statewide inspection service is maintained for the collection of official samples of economic poisons from farms, other users and dealers. Individual requests for inspections are followed up promptly.

Samples are sent to the department's laboratories for analysis and as

soon as this work is completed, individual reports are forwarded to manufacturers, dealers and users. As a further means of reporting, an issue of The Bulletin covering a year's work as exemplified herewith, is published annually.

The economic poisons law gives control officials certain discretionary authority in dealing with borderline cases. The earnest cooperation of a great majority of manufacturers and dealers has been a valuable asset in the administration of the law.

Cooperative work by staff members of the North Carolina Experiment Station and Extension Service has been mutually beneficial and most helpful. Credit also is due members of the laboratory section for the highly satisfactory manner in which the analytical work has been carried out: H. A. Miller, Assistant State Chemist; Henry W. Barnes, Jr., William Buffaloe, Harold Jackson, Thomas Vick, Mrs. Muriel Weathers, George Winstead, II, Chemists; Mrs. Frances Liles, Secretary; S. E. Berkshire, George A. Brown, Jr., J. W. Davis, H. C. McPhail, James R. Stevens, Inspectors; William Morgan, Donald Smith, Laboratory Helpers.

Brief of North Carolina Insecticide Law

Commissioner of Agriculture, Raleigh, North Carolina.

Administrative
Officer

1. The name and address of the guarantor.
2. The brand name or trademark.
3. The net weight or measure.
4. A guaranteed analysis statement showing:
 - a. The name and percentage of each active ingredient.
 - b. The total percentage of inert ingredients.
5. Instructions for use, adequate for the protection of public.
6. A warning or caution statement adequate to prevent injury.
7. For economic poisons highly toxic to man:
 - a. The skull and crossbones.
 - b. The word "Poison" in red, on distinctly contrasting background.
 - c. An antidote for the poison.
8. When arsenic is present—the percentages of the total and of the water-soluble arsenic separately and as elemental (metallic) arsenic.

Information
Required to
Appear on
Package
Labels

Other General Requirements:

1. Strength and quality must not fall below that professed or claimed.
2. No false or misleading statement, design or other representation is permissible.
3. Imitations are not permitted.
4. Labeling may not refer to registration.
5. Labeling shall be legible and understandable.
6. Claims or directions for use may not deviate in substance, or composition vary, from representations made on registering.
7. Economic poisons must be sold in the registrant's or manufacturer's original package. If repackaged for sale, it loses its original identity and qualifies as a new product. As such it is subject to registration and all other provisions of the law. Responsibility rests on the repackaging agent.

General
Requirements

8. Economic poisons in powdered form of white or light color require distinct further coloring for safety.

Registration

Each brand and grade of economic poisons must be registered prior to sale (application forms are furnished by the department), subject to renewal annually, January 1st. Duplication of registration by secondary sellers is not required.

Application must be accompanied by full information (see package labeling above), including specimen of labeling, all claims, and, if called for, certain additional data when necessary in qualifying the product.

Inspection Tax

An annual inspection tax of \$10.00 for each brand and each grade is required.

Method of Paying

Inspection tax must accompany application for registration, payable to the North Carolina Department of Agriculture.

Refusal or Cancellation of Registration

Registration is subject to refusal or cancellation for cause and upon hearing.

Stop-Sale Orders

Goods not measuring up to requirements are subject to Stop-Sale Orders.

Short Weight

Short weight, in addition to above, is subject to penalty.

Exempt From Penalties of Law Are:

Exemptions

1. Carriers engaged in legal transporting.
2. Public official while performing official duties.
3. Manufacturers and shippers of products properly identified for experimental use only.
4. Persons shown to be proceeding in good faith on guarantees and representations given by others. The original guarantor then is liable.

NOTE: Copies of the economic poisons law may be obtained upon request to the Inspection Division, North Carolina Department of Agriculture, Raleigh, North Carolina.

Economic Poisons Registrants, 1961

ACELINE PRODUCTS CORPORATION
P. O. Box 236
Rochester 1, New York

ACME FERTILIZER COMPANY
P. O. Box 98
Acme, North Carolina

ACME QUALITY PAINTS, INC.
8250 St. Aubin Avenue
Detroit 11, Michigan

AERO-MASTER, INC.
325 W. Pacific Avenue
St. Louis 19, Missouri

AGRICULTURAL SPECIALTIES
12200 Denton Drive
Dallas 34, Texas

AIRKEM, INC.
241 East 44th Street
New York 17, New York

AIROSOL COMPANY, INC.
525 N. 11th Street
Neodesha, Kansas

ALCATRAZ COMPANY, INC., THE
1900 Ellen Road
Richmond 30, Virginia

ALCO CHEMICAL COMPANY
19220 Pioneer Blvd.
Artesia, California

ALFORD HOME PRODUCTS
P. O. Box 239
Middlesex, North Carolina

ALLEN-CROWL COMPANY
1559 Allentown Road
Lima, Ohio

ALLIED CHEMICAL & DYE CORPORATION
Chemical Division
40 Rector Street
New York 6, New York

ALLIED CHEMICAL & DYE CORPORATION
Plastics & Coal Chemical Division
40 Rector Street
New York 6, New York

ALLIED DRUG PRODUCTS COMPANY
P. O. Box 871
Chattanooga 1, Tennessee

ALLIED PRODUCERS & SUPPLY COMPANY
P. O. Box 3421
Charlotte 3, North Carolina

AMCHEM PRODUCTS, INC.
Ambler
Pennsylvania

AMERICAN CYANAMID COMPANY
P. O. Box 400
Princeton, New Jersey

AMERICAN LACE PAPER COMPANY
4425 N. Port Washington Road
Milwaukee 12, Wisconsin

AMERICAN SCIENTIFIC LABORATORIES, INC.
P. O. Box 1288
Madison 1, Wisconsin

AMERICAN STERILIZER COMPANY
2424 W. 23rd Street
Erie, Pennsylvania

AMWAY SALES CORPORATION
7575 E. Fulton Road
Ada, Michigan

ANIMAL REPELLENTS, INC.
980 Ellicott Street
Buffalo 9, New York

A-PENN OIL COMPANY
P. O. Box 191
Butler, Pennsylvania

APEX CHEMICAL COMPANY
P. O. Box 146
Apex, North Carolina

ARMOUR AGRICULTURAL CHEMICAL COMPANY
P. O. Box 900
Greensboro, North Carolina

ARMOUR & COMPANY
Soap Division
1355 West 31st Street
Chicago 9, Illinois

ARNOTT CHEMICAL & EXTERMINATING CO.
249 Mass. Avenue
Indianapolis 4, Indiana

ASPDEN ASSOCIATES, INC.
1003 Battleground Avenue, Box 1737
Greensboro, North Carolina

ATHENS INSECTICIDE COMPANY
N. Jackson Street
Athens, Tennessee

ATLA CHEMICAL COMPANY, INC.
P. O. Box 1761
Greensboro, North Carolina

ATLANTIC & PACIFIC TEA CO., THE GREAT
2024 Thrift Road
Charlotte, North Carolina

ATLAS AGRICULTURAL CHEMICALS, INC.
P. O. Box 169
Waynesboro, Georgia

AVRIL, INCORPORATED
Third & Greenwich Streets
Reading, Pennsylvania

BABBITT, B. T., INC.
20 Broadway
Albany 1, New York

BARCO MFG. CO., INC.
340 Main Street
Worcester 8, Mass.

BARKER, MOORE & MEIN COMPANY
713 Walnut Street
Lebanon, Pennsylvania

BAUER & BLACK
Division of The Kendall Co.
309 W. Jackson Blvd.
Chicago 6, Illinois

BEN VENUE LABORATORIES, INC.
270 Northfield Road
Bedford, Ohio

- BERLOU MANUFACTURING COMPANY**
421 Monroe Street
Marion, Ohio
- BEST EXTERMINATING SERVICE, INC.**
317 W. Pettigrew Street
Durham, North Carolina
- BEST, G. W.**
Franklinton
North Carolina
- BIO-LAB, INC.**
627 E. College Avenue
Decatur, Georgia
- BIRD & SON, INC.**
Washington Street
East Walpole, Mass.
- BISSELL, INC.**
919-18th St., N. W.
Washington 6, D. C.
- BLACK LEAF PRODUCTS COMPANY**
6147 N. Broadway
Chicago 40, Illinois
- BLACK MAGIC COMPANY**
509 Green Street, Box 466
Valdosta, Georgia
- BLACK PANTHER COMPANY, INC.**
P. O. Box 690
Sanford, North Carolina
- BLUE BALL CHEMICAL COMPANY**
2506 Kuhl Avenue
Orlando, Florida
- BLUE MAGIC COMPANY**
509 S. Lodge Street
Wilson, North Carolina
- BOHLENDER PLANT CHEMICALS, INC.**
Tipp City
Ohio
- BONIDE CHEMICAL COMPANY**
382 Genesee Street
Utica 4, New York
- BORDERLAND PRODUCTS, INC.**
560 Fulton Street
Buffalo, New York
- BOYER CHEMICAL COMPANY**
1611 Church Street
Evanston, Illinois
- BOYLE-MIDWAY, INC.**
685 Third Avenue
New York 17, New York
- BUCKEYE CHEMICAL & SPECIALTY**
29 East 21 Street
New York 10, New York
- BURPEE, W. ATLEE COMPANY**
18th St. & Hunting Park Avenue
Philadelphia 32, Pa.
- CALIFORNIA CHEMICAL COMPANY**
Ortho Division
Richmond 4, California
- CALUMET DIVISION**
Calumet & Hecla, Inc.
1 Calumet Avenue
Calumet, Michigan
- CAPE FEAR CHEMICALS, INC.**
P. O. Box 567
Elizabethtown, North Carolina
- CAPITOL CHEMICAL COMPANY**
3255 Prospect Avenue, N. W.
Washington 7, D. C.
- CARAJON CHEMICAL COMPANY, INC.**
P. O. Box 167
Fremont, Michigan
- CARBOLA CHEMICAL COMPANY, INC.**
Natural Bridge
New York
- CARBOLINEUM WOOD PRESERVING COMPANY**
6683-N. 40th Street
Milwaukee, Wisconsin
- CARDINAL PRODUCTS, INC.**
P. O. Box 1611
Durham, North Carolina
- CAROLINA CHEMICAL CORP.**
Box 70
Wilson, North Carolina
- CAROLINA CHEMICALS, INC.**
P. O. Box 128
Columbia Airport
West Columbia, South Carolina
- CAROLINA FEED STORE**
279 E. Main Avenue
Gastonia, North Carolina
- CARROLL CHEMICAL COMPANY, THE**
2301 Hollins Street
Baltimore 23, Maryland
- CARTER INSECTICIDE & CHEMICAL COMPANY, INC.**
P. O. Box 209
Wallace, North Carolina
- C-B DRUG COMPANY**
2219 Freedom Drive
Charlotte 8, North Carolina
- CEDAR HILL FORMULAE COMPANY, THE**
234 Steele Street
Box 1129
New Britain, Conn.
- CENTER CHEMICAL COMPANY**
P. O. Box 1888
Atlanta, Georgia
- CENTRAL CHEMICAL CORPORATION**
P. O. Box 310
Hagerstown, Maryland
- CHAMBERS-GODFREY MFG. COMPANY**
302-04 Broadway
Martin, Tennessee
- CHAPMAN CHEMICAL COMPANY**
60 N. 3rd. Street
Memphis, Tennessee
- CHAPMAN, M. A. & SON**
P. O. Box 691
Canton, North Carolina
- CHASE PRODUCTS COMPANY**
19th & Gardner Road
Broadview, Illinois
- CHEMAGRO CORPORATION**
P. O. Box 4913
Kansas City 20, Missouri
- CHEMICAL CORPORATION OF AMERICA**
Box 3577, Monroe St. Station
Tallahassee, Florida

CHEMISTRY HALL LABORATORIES
P. O. Box 255
Bradenton, Florida

CHEMLEY PRODUCTS COMPANY
5744 N. Western Avenue
Chicago 45, Illinois

CHEMWAY CORPORATION
Fairfield Road
Mountain View
Wayne, New Jersey

CHESTER CHEMICAL CORPORATION
2732 6th Avenue, S.
St. Petersburg, Florida

CHIPMAN CHEMICAL COMPANY, INC.
Bound Brook
New Jersey

CLARKE & PROCTOR TURPENTINE
CO., INC.
113-349 Worth Street
Fayetteville, North Carolina

CLEAN HOME PRODUCTS, INC.
2805 Locust Street
St. Louis 3, Missouri

CLEARY CORPORATION, W. A.
P. O. Box 749
New Brunswick, New Jersey

CLICK CHEMICAL CORPORATION
601 S. Columbus Avenue
Mount Vernon, New York

CLINTON NURSERIES
Boston Post Road
Clinton, Conn.

COAHOMA CHEMICAL COMPANY, INC.
P. O. Box 728
Clarksdale, Mississippi

COASTAL CHEMICAL CORPORATION
2113 Dickinson Avenue
P. O. Box 627
Greenville, North Carolina

COLGATE-PALMOLIVE COMPANY
300 Park Avenue
New York 22, New York

COLONIAL PRODUCTS, INC.
6207 Georgia Avenue
P. O. Box 6235
West Palm Beach, Florida

COLONIAL STORES, INC.
215 Lawyers Bldg.
Greenville, South Carolina

COMET MANUFACTURING CORPORATION
688 Spring Street N. W.
Atlanta 8, Georgia

COMMON SENSE MFG. CO., INC.
1392 Niagara Street
Buffalo 13, New York

COOK CHEMICAL COMPANY
2500 Summit Street
Kansas City, Missouri

COOPER, WILLIAM & NEPHEWS, INC.
1909 N. Clifton Avenue
Chicago 14, Illinois

COUGHLAN, G. N. COMPANY
29 Spring Street
West Orange, New Jersey

COWLEY, S. L. & SONS MFG. CO.
708 W. McAlester Street
Hugo, Oklahoma

CRE-O-TOX CHEMICAL PRODUCTS CO.
2670 Broad Avenue
Memphis, Tennessee

CUTTER LABORATORIES, INC.
Fourth & Parker Streets
Berkeley 10, California

DALY-HERRING COMPANY
Adkin & University Streets
Kinston, North Carolina

DARWORTH INCORPORATED
Cuprinol Division
P. O. Box 308
Simsbury, Connecticut

DAUBERT CHEMICAL COMPANY
4700 S. Central
Chicago 38, Illinois

DAVIES-YOUNG SOAP CO., THE
705 Albany Street
Dayton 1, Ohio

d-CON COMPANY, INC., THE
1450 Broadway
New York 18, New York

DEAM CORPORATION, THE
41 Deale Avenue
Memphis 3, Tennessee

DESOTO CHEMICAL COMPANY, INC.
P. O. Box 70
Arcadia, Florida

DETTELBACK INSECTICIDE CORP.
4103 Peachtree Road, N.E.
Atlanta 19, Georgia

DIAMOND ALKALI COMPANY
300 Union Commerce Bldg.
Cleveland 14, Ohio

DILL COMPANY, THE
Washington St. & McKinley Ave.
Norristown, Pa.

DIXIE CHEMICAL COMPANY
P. O. Box 1711
Chattanooga, Tennessee

DONALDSON COMPANY, INC.
666 Pelham Boulevard
St. Paul 14, Minn.

DON'S SCOURING SPONGE COMPANY
127 Flower Avenue West
Watertown, New York

DOUGLAS CHEMICAL COMPANY
620 East 16th Avenue
North Kansas City, Mo.

DOUGLAS CHEMICAL COMPANY, INC.,
THE
P. O. Box 6541
Richmond, Virginia

DOW CHEMICAL COMPANY, THE
Midland
Michigan

DRACKETT PRODUCTS COMPANY, THE
5020 Spring Grove Avenue
Cincinnati 32, Ohio

DUMAS MILNER CORP.
4539 N. View Dr.
Jackson, Miss.

DUN WIN COMPANY
136 Elm Street
S. Williamsport, Penn.

DU PONT DE NEMOURS & COMPANY,
E. I., INC.
6054 Du Pont Bldg.
Wilmington 98, Delaware

EAGLE CHEMICAL COMPANY
P. O. Box 8127
Chattanooga, Tenn.

ECONOMICS LABORATORY, INC.
Guardian Bldg.
Saint Paul 1, Minn.

EDWARDS-COUNCILOR CO., INC.
121 Colley Avenue
Norfolk 10, Virginia

ELANCO PRODUCTS COMPANY
740 S. Alabama St.
Indianapolis 6, Indiana

ELECTROLUX CORPORATION
235 East 42nd St.
New York 17, New York

EMERY INDUSTRIES, INC.
4200 Carew Tower
Cincinnati 2, Ohio

EMPIRE LABORATORIES
700 Marietta St., N.W.
Atlanta 18, Georgia

FAIRFAX BIOLOGICAL LABORATORY
Electronic Road
Clinton Corners, New York

FAIRFIELD CHEMICAL DIVISION
Food Machinery & Chemical Corp.
100 Niagara Street
Middleport, New York

FAR-BEST, CORP.
6715 McKinley Avenue
Los Angeles 1, California

FARMACAL INDUSTRIES, INC.
809 N. Market St.
Chattanooga 5, Tenn.

FARMERS COOPERATIVE EXCHANGE,
INC.
FCX Farm Chemical Dept.
P. O. Box 1069
Statesville, North Carolina

FARNHAM COMPANY, THE
P. O. Box 2151
Phoenix, Ariz.

FEDERAL CHEMICAL COMPANY
2701 Winthrop Avenue
Indianapolis 5, Indiana

FERGUSON, ALEX. C., CO.
44 East Oregon Avenue
Philadelphia 48, Pa.

FLORIDA AGRICULTURAL SUPPLY
COMPANY
1611 Talleyrand Avenue
Jacksonville, Florida

FLY-CORD, INC.
P. O. Box 2006
Savannah, Georgia

FRANKLIN RESEARCH COMPANY
5134 Lancaster Avenue
Philadelphia 31, Pa.

FRENCH COMPANY, THE R. T.
1 Mustard Street
Rochester 9, New York

FRONTIER CHEMICAL COMPANY
Division of Vulcan Materials Co.
P. O. Box 545
Wichita, Kansas

GARDEN HOSE SPRAY CO., INC.
7 Upland Road
Cambridge 40, Mass.

GASTON JOHNSTON CORPORATION
24-64 45th Street
Long Island City 3, New York

GEIGY AGRICULTURAL CHEMICALS
P. O. Box 430
Yonkers, New York

GEORGIA-CAROLINA OIL COMPANY
P. O. Box 101
Macon, Georgia

GEORGIA GULF SULFUR CORPORATION
Spring Creek Road
Bainbridge, Georgia

GETEM MANUFACTURING COMPANY,
INC.
1261 West 42nd Street
Norfolk 8, Virginia

GIBSON-HOMANS COMPANY
Hutson Division
Railroad & Institute Street
Conyers, Georgia

GLAMORENE, INC.
175 Entin Road
Clifton, New Jersey

GLAMUR PRODUCTS, INC.
1024 Montgomery Street
Syracuse 3, New York

GLIDDEN COMPANY, THE
900 Union Commerce Bldg.
Cleveland 14, Ohio

GLOBE LABORATORIES, INC.
116 Commerce Street
Fort Worth 2, Texas

GLOVER COMPANY, INC., H. CLAY
1001 Franklin Avenue
Garden City, New York

GLOVER MINERAL PRODUCTS, INC.
Kenbridge
Virginia

GRACE & COMPANY, W. R.
Davison Chemical Division
P. O. Box 858
Charleston, South Carolina

GRAHAM CHEMICAL COMPANY
1407 Battleground Avenue
Greensboro, North Carolina

GREAT LAKES CHEMICAL CORP.
Div. of Great Lakes Oil & Chemical Co.
753 Warner Bldg.
Washington 4, D. C.

GREEVER'S, INC.
Chilhowie
Virginia

GRISSMER COMPANY, EARL
P. O. Box 20092
Indianapolis, Indiana

GRO CHEMICAL COMPANY
3530 N. W. 31 St.
Miami, Florida

GUARD CHEMICAL COMPANY, INC.
North Water Street
Ossining, New York

GUARDIAN CHEMICAL COMPANY
P. O. Box 1354
Atlanta 1, Georgia

GULF OIL CORPORATION
P. O. Box 1519
Houston 1, Texas

GURMICO CHEMICALS, INC.
P. O. Box 146
Princeton, North Carolina

H & M CHEMICAL COMPANY
43 Green Street
Sumter, South Carolina

HAPPY JACK, INC.
P. O. Box 325
Snow Hill, North Carolina

HARMON PRODUCTS COMPANY
616 E. Fourth Street
Gastonia, North Carolina

HARRIS PRODUCTS COMPANY, INC.
P. O. Box 4
Miami Beach 39, Florida

HARRIS & CO., INC., J. M.
P. O. Box 411
Roanoke, Virginia

HARRIS MFG. CO., P. F.
101 W. 8th Street
North Little Rock, Arkansas

HELLER LABORATORIES, INC.
Calumet Avenue & 40th St.
Chicago 53, Illinois

HERCULES POWDER COMPANY
900 Market Street
Wilmington 99, Delaware

HERTRON CHEMICAL COMPANY
306 Clanton Road
Charlotte 3, North Carolina

HESS & CLARK, INC., DR.
7th & Orange Sts.
Ashland, Ohio

HILL MANUFACTURING COMPANY
1500 Jonesboro Road, S.E.
Atlanta 15, Georgia

HILLYARD SALES CO.
302 N. 4th St.
St. Joseph 1, Missouri

HINTON & CO., INC.
67 Murray Street
New York 7, New York

HOLCOMB MFG. COMPANY, J. I.
1601 Barth Avenue
Indianapolis 7, Indiana

HOLLINGSHEAD CORP., R. M.
840 Cooper Street
Camden 2, New Jersey

HOLLYWOOD TERMITE CONTROL
938 N. Eastern Avenue
Los Angeles 63, California

HOOKER CHEMICAL CORP.
666 Fifth Avenue
New York 19, New York

HOPKINS AGRICULTURAL CHEMICAL CO.
124 S. Dickinson Street
Madison 1, Wisconsin

HOT SHOT QUALITY PRODUCTS, INC.
701 N. Main St.
Memphis, Tennessee

HOUSE OF HUSTON, INC.
1450 Broadway
New York 18, New York

HOUSTON COMPANY, SAM
Box 662
Talladega, Alabama

HOWERTON, GOWEN COMPANY, INC.
E. 11th Street
Roanoke Rapids, North Carolina

HUGE COMPANY, INC., THE
884-86 Hodiamont Avenue
St. Louis 12, Missouri

HUMBLE OIL & REFINING COMPANY
15 West 51st Street
New York 19, New York

HUNTINGTON LABORATORIES, INC.
968 E. Tipton Street
Huntington, Indiana

HUTSON & SON, H. G.
P. O. Box 2190
Atlanta 1, Georgia

HUTTIG SASH & DOOR COMPANY
1306 S. Vandeventer Avenue
St. Louis 10, Missouri

HYDROPONIC CHEMICAL COMPANY, INC.
P. O. Box 97-C
Copley, Ohio

INDEPENDENT EXTERMINATING COM-
PANY OF N. C.
210 South Rutherford Street
Wadesboro, North Carolina

INDUSTRIAL FUMIGANT COMPANY
923 State Line
Kansas City 1, Missouri

INDUSTRIAL PROCESSING CHEMICALS,
INC.
1215 East 4th Street
Charlotte, North Carolina

INSECT CONTROL SALES & SERVICE
P. O. Box 152
Candor, North Carolina

IRWIN-WILLERT COMPANY
4044 Park Avenue
St. Louis 10, Missouri

J & J CHEMICAL COMPANY, INC.
P. O. Box 3411
Houston 36, Texas

JOHNSON & SON, S. C., INC.
1525 Howe Street
Racine, Wisconsin

KAY CHEMICAL COMPANY
131 W. High Street
High Point, North Carolina

KEEL PEANUT COMPANY
P. O. Box 878
Greenville, North Carolina

KERR CHEMICALS, INC.
1001 Northwest Highway
Des Plaines, Illinois

KING CHEMICAL COMPANY
2342 South Lauderdale Street
Memphis 6, Tennessee

KLENZADE PRODUCTS, INC.
P. O. Box 1020
Beloit, Wisconsin

KOLKER CHEMICAL CORP.
600 Doremus Avenue
Newark 5, New Jersey

KOPPERS COMPANY, INC.
Tar Products Division
430 Park Avenue
New York 22, New York

K-R-O COMPANY
19½ N. Limestone St.
Springfield, Ohio

LABCO PET PRODUCTS CO.
281 Franklin Street
Boston 10, Mass.

LATHAN CHEMICAL PRODUCTS
503 Neuse Street
Oriental, North Carolina

LEBANON CHEMICAL CORPORATION
P. O. Box 532
Lebanon, Pa.

LEGEAR, DR., INC.
4161 Beck Avenue
St. Louis 16, Missouri

LESTER LABORATORIES, INC.
P. O. Box 4897
Atlanta 2, Georgia

LESTOIL PRODUCTS, INC.
51 Garfield Street
Holyoke, Massachusetts

LETHELIN PRODUCTS COMPANY, INC.
15 MacQuesten Parkway, S.
Mount Vernon, New York

LINCK CO., INC., O. E.
Route 46 and Valley Road
Clifton, New Jersey

LOUDEN MACHINERY COMPANY
607 West Broadway
Fairfield, Iowa

MCCORMICK & COMPANY, INC.
McCormick Building
Baltimore 2, Maryland

MCKESSON & ROBBINS, INC.
P. O. Box 548
Bridgeport, Connecticut

MCLAUGHLIN GORMLEY KING CO.
1715 Fifth St., S.E.
Minneapolis 14, Minn.

MABEX COMPANY, THE
Umbria & Lemonte Streets
Philadelphia 27, Pa.

MAHAFFEY COMPANY
P. O. Box 3145
Greenville, South Carolina

MAINTENANCE SUPPLY COMPANY, INC.
P. O. Box 283
Huntersville, North Carolina

MALLINCKRODT CHEMICAL WORKS
P. O. Box 685, Church St. Sta.
New York 8, New York

MARK LABORATORIES, INC.
7007 Kelly Street
Pittsburgh 8, Pa.

MASTER PRODUCTS COMPANY
P. O. Box 531
Fayetteville, North Carolina

MASURY-YOUNG COMPANY
76 Roland Street
Boston 29, Mass.

MAXWELL INSECTICIDE COMPANY, INC.
P. O. Box 5627
Raleigh, North Carolina

MEADOWS CHEMICALS, INC.
80 Washington St.
Hempstead, L. I., N. Y.

MEHERA N AGRICULTURAL & CHEMICAL CO.
Severn
North Carolina

MERCK & COMPANY, INC.
Rahway
New Jersey

MICHIGAN CHEMICAL CORPORATION
500 N. Bankson
St. Louis, Michigan

MIDLAND LABORATORIES
210-220 Jones Street
Dubuque, Iowa

MIKE, INC.
P. O. Box 92
Newland, North Carolina

MILLER CO., B. E.
P. O. Box 127
Hancock, Maryland

MILLER CHEMICAL & FERTILIZER CORP.
3006 West Cold Spring Lane
Baltimore 15, Maryland

MILLER PRODUCTS COMPANY
607 Del. Monte Way
St. Louis 12, Missouri

MILLS-PEARSON CORP.
2621 24th St. N., Box 10968
St. Petersburg 33, Florida

MISSION HOME PRODUCTS, INC.
P. O. Box 54115, Terminal Annex
Los Angeles 54, California

- MOLONY FERTILIZER COMPANY**
P. O. Box 314
Charleston, South Carolina
- MOMAR, INCORPORATED**
1830 Ellsworth Industrial Dr., N.W.
Atlanta, Georgia
- MONA INDUSTRIES, INC.**
P. O. Box 1786
Paterson 17, New Jersey
- MONSANTO CHEMICAL COMPANY**
800 North Lindbergh St.
St. Louis 66, Missouri
- MORTON CHEMICAL COMPANY**
Agri. Div., Research Dept.
Woodstock, Illinois
- MOTOMCO, INC.**
89 Terminal Avenue
Clark, New Jersey
- MUTUAL PRODUCTS COMPANY**
509 North Fourth Street
Minneapolis, Minn.
- MYZON LABORATORIES**
3129 W. 47th Street
Chicago 32, Illinois
- NALCO CHEMICAL COMPANY**
6216 W. 66th Pl.
Chicago 38, Illinois
- NATCON CHEMICAL COMPANY, INC.**
Lexington & Revere Avenues
Bethpage, Long Island, New York
- NATIONAL HOG MEDICINE COMPANY**
804 N. West Street
P. O. Box 1634
Raleigh, North Carolina
- NATIONWIDE CHEMICAL COMPANY, INC.**
2209 Towler St.
Fort Myers, Fla.
- NIAGARA CHEMICAL DIVISION**
Food Machinery & Chemical Corp.
Box 1709
Jacksonville 1, Florida
- NIP-CO MANUFACTURING, INC.**
200 Main Street
New Rochelle, New York
- NORTHERN INDUSTRIES, INC.**
407 E. Michigan St.
Milwaukee 2, Wisconsin
- NOTT MANUFACTURING CO., INC.**
200 S. Water St.
Poughkeepsie, New York
- NOWLAND CO., THE GEO. H.**
538 E. 5th St.
Cincinnati 2, Ohio
- NUODEX PRODUCTS CO., INC.**
110 E. 42nd St.
New York 17, New York
- ODOR-AIRE, INC.**
330 N. Mosley
P. O. Box 487
Wichita, Kansas
- OIL SPECIALTIES & REFINING CO., INC.**
18 Bridge Street
Brooklyn 1, New York
- OLIN MATHIESON CHEMICAL CORP.**
Mathieson Bldg.
10 Light St.
Baltimore 3, Maryland
- ONE-SPOT COMPANY**
Jessup
Maryland
- OPITZ, INC., JOHN**
50-14-39th Street
Long Island City 4, New York
- PAPER PRODUCTS, INC.**
Box 5158
Long Beach 5, Calif.
- PARKE, DAVIS & COMPANY**
Foot of Joseph Campau
Detroit 32, Michigan
- PARRAMORE & GRIFFIN SEED CO., INC.**
108 S. Toombs St.
Valdosta, Ga.
- PAXTON ENTERPRISES**
Box 728
Palacios, Texas
- PEARSON & CO.**
151 N. Commerce St.
Mobile, Ala.
- PEELE COMPANY, INC., W. R.**
516 S. Salisbury St.
Raleigh, North Carolina
- PENICK & CO., S. B.**
50 Church Street
N. Y. 8, N. Y.
- PENINSULAR PRODUCTS CO., INC**
P. O. Box 8055
West Palm Beach, Florida
- PENNSALT OF WASHINGTON DIVISION**
2901 Taylor Way
Tacoma, Washington
- PENNSYLVANIA ENGINEERING COMPANY**
1107-21 N. Howard Street
Philadelphia 23, Pa.
- PENNSYLVANIA REFINING COMPANY**
Butler
Pennsylvania
- PENNSYLVANIA SALT MANUFACTURING COMPANY**
Three Penn Center Plaza
Philadelphia 2, Pa.
- PERMACHEM HOME PRODUCTS CORP.**
580 5th Ave.
New York 36, New York
- PEST-GUARD PRODUCTS, INC.**
731 W. Davis St.
Dallas 8, Texas
- PESTICIDE DISTRIBUTING CO.**
3534 Central Ave.
Charlotte 5, North Carolina
- PET CHEMICALS, INC.**
1038 N.W. 21st Ter.
Miami, Fla.
- PETPAK PRODUCTS CO.**
5151 N. 32nd St.
Milwaukee 9, Wisconsin

- PFEIFFER CO., THE
3965 Laclede Avenue
St. Louis 8, Mo.
- Pfizer & Co., Inc., Charles
11 Barlett Street
Brooklyn 6, New York
- PHELPS DODGE REFINING CORP.
300 Park Ave.
New York 22, New York
- PIC CORPORATION
480 Washington St.
Newark 2, New Jersey
- PIONEER MANUFACTURING CO., THE
3053 E. 87th St.
Cleveland 4, Ohio
- PITTSBURGH PLATE GLASS CO.
New Albany Rd.
Moorestown, N. J.
- PLANTABBS CORPORATION
1105 Maryland Ave.
Baltimore 1, Maryland
- PLANTERS CHEMICAL CORPORATION
3111 Virginia Beach Blvd.
Norfolk 16, Va.
- PLOUGH, INC.
3022 Jackson Avenue
Memphis, Tenn.
- POLK MILLER PRODUCTS CORPORATION
2007 North Hamilton Street
Richmond 30, Va.
- PRATT CO., B. G.
204 21st Ave.
Paterson, New Jersey
- PRATT LABORATORIES, INC.
P. O. Box 602
Danville, Ky.
- PRENTISS DRUG & CHEMICAL COM-
PANY, INC.
101 W. 31st Street
New York 1, New York
- PROCTOR & GAMBLE CO., THE
P. O. Box 599
Cincinnati 1, Ohio
- PROTECTION PRODUCTS MFG. CO.
2305 Superior Avenue
Kalamazoo, Michigan
- PUREX CORPORATION, LTD.
93 Rayo Avenue
South Gate, California
- PYRROLE CHEMICAL CORP.
817 Spring Lane
Portsmouth, Ohio
- QUALITY CHEMICAL CORP.
P. O. Box 70
Wilson, North Carolina
- RALSTON PURINA COMPANY
835 S. Eighth Street
St. Louis, Mo.
- RAT LUNCHES COMPANY
10 S. Winona Ct.
Denver 19, Colorado
- RAWLEIGH COMPANY, THE W. T.
223-225 E. Main St.
Freeport, Ill.
- REARDON LABORATORIES, INC., W. G.
330 North Main St.
Port Chester, New York
- REASOR-HILL CORP.
Box 36
Jacksonville, Ark.
- REEFER-GALLER, INC.
521 Fifth Avenue
New York 17, New York
- REICHOLD CHEMICALS, INC.
Gen. Sales Mgr.
South Div.
Tuscaloosa, Ala.
- REILLY TAR & CHEM. CORP.
1615 Merchant Bank Bldg.
Indianapolis 4, Ind.
- REXAIR, INC.
c/o The Ottawa Chemical Co.
700 N. Wheeling St.
Toledo 5, Ohio
- REXALL DRUG COMPANY
8480 Beverly Boulevard
Los Angeles 54, California
- REX RESEARCH CORPORATION
600 Montrose Avenue
Toledo 7, Ohio
- RIGO MANUFACTURING COMPANY, INC.
Box 1188, 638 Benton Ave.
Nashville, Tenn.
- RODENT CONTROL FUND, N. C. STATE
COLLEGE
P. O. Box 5577, State College Sta.
Raleigh, North Carolina
- ROHM & HAAS COMPANY
222 W. Washington Square
Philadelphia 5, Pa.
- RUST-OLEUM CORPORATION
2425 Oakton Street
Evanston, Ill.
- SABINE CHEMICAL COMPANY
P. O. Box 1206
Port Arthur, Texas
- SALSBURY'S LABORATORIES, DR.
500 Gilbert St.
Charles City, Iowa
- SANFAX CORP.
P. O. Box 604
Atlanta, Ga.
- SANITATION PRODUCTS CO., INC.
3534 Central Ave.
Charlotte, North Carolina
- SAUER, THE C. F. CO.
2000 West Broad St.
Richmond 20, Va.
- SCIENCE PRODUCTS COMPANY
1180 E. 63rd St.
Chicago 37, Ill.
- SCOTT & SONS CO., O. M.
Marysville
Ohio
- SEABOARD SEED COMPANY
701 S. Front Street
Philadelphia 47, Pa.

SEACOAST LABORATORIES, INC.
156 Perry Street
New York 14, New York

SEARS, ROEBUCK & CO.
925 S. Homan Avenue
Chicago 7, Illinois

SELIG COMPANY, THE
342 Marietta St., N. W.
Atlanta 13, Ga.

SENORET CHEMICAL CO.
610 Gratiot Street
St. Louis 2, Mo.

SEXTON & CO., JOHN
10 Chestnut Street
Philadelphia 5, Pa.

SHELL CHEMICAL CO.
110 W. 51st St.
New York 20, New York

SHELL OIL COMPANY
50 W. 50th St.
New York 20, New York

SHEPARD CHEMICAL WORKS
P. O. Box 473
Wilmington, North Carolina

SHERMAN LABORATORIES
AGRICULTURAL DIV.
5031 Grandy Ave.
Detroit 11, Michigan

SHULTON, INC.
697 Route 46
Clifton, New Jersey

SHUPTRINE COMPANY
P. O. Box 644
Savannah, Ga.

SINGLETARY, JR. & CO. F. B.
208 S. Washington Street
Rocky Mount, N. C.

SMITH-DOUGLASS CO., INC.
P. O. Box 419
Norfolk, Virginia

SMITH SEED COMPANY
315 Lynn Street
Danville, Va.

SMITH SPECIALTIES CO., T. W.
P. O. Box 5146
Charlotte 5, North Carolina

SOUTHERN AGRICULTURAL CHEMICALS,
INC.
P. O. Box 238
Kingstree, S. C.

SOUTHERN AGRICULTURAL INSECTI-
CIDES, INC.
P. O. Box 218
Palmetto, Florida

SOUTHERN CHEMICAL COMPANY
P. O. Box 930
Hendersonville, North Carolina

SPINDLE CITY CHEMICAL CO.
1015 Cherokee Ave.
Rock Hill, South Carolina

SPIRITINE CHEMICAL COMPANY
P. O. Box 233
Wilmington, North Carolina

SPRAYWAY, INC.
7644 Vincennes Ave., S.
Chicago 20, Illinois

STALFORD PRESSURE-PAK, INC.
2012 Hammonds Ferry Rd.
Baltimore 27, Maryland

STANDARD AGRICULTURAL CHEMICALS,
INC.
1301 Jefferson Street
Hoboken, New Jersey

STANDARD LABORATORIES, INC.
201 Tabor Road
Morris Plains, New Jersey

STANDARD PACKAGING CORP.
200 E. 42nd Street
New York 17, New York

STAUFFER CHEMICAL COMPANY
P. O. Box 5388
Tampa 5, Florida

STEARNS' ELECTRIC PASTE CO.
8 S. Dearborn St.
Chicago 3, Ill.

STEPHENSON CHEMICAL CO.
P. O. Box 188
College Park, Ga.

STERLING COMPANY, INC., THE
2801-05 Locust St.
St. Louis 3, Missouri

STERWIN CHEMICALS, INC.
1450 Broadway
New York 18, New York

STEVENS INDUSTRIES, INC.
P. O. Box 272
Dawson, Ga.

STRICKLAND & CO., J.
1400 Ragan St.
Memphis 2, Tenn.

STULL'S CHEMICALS, INC.
P. O. Box 6386
San Antonio 9, Texas

SUN OIL COMPANY
1608 Walnut St.
Philadelphia 3, Pa.

SUWANNEE DRUG CO.
128 Central Avenue
Newberry, Florida

SWEENEY, MFGR., INC., W. R.
340 S. Main Street
Salisbury, Missouri

SWIFT & CO., AG. CHEM. DIV.
P. O. Box 7537
Norfolk 15, Virginia

TANCK, INC., RAY H.
Middleton
Wisconsin

TAYLOR CHEMICAL COMPANY
Aberdeen
North Carolina

TENNESSEE CORPORATION
617-29 Grant Building
Atlanta 1, Ga.

TERRELL MOTHPROOF INSTITUTE
2 West Columbia Street
Springfield, Ohio

TESCO CHEMICALS, INC.
1575 Northside Dr., N. W.
Atlanta, Ga.

TEXAS REFINERY CORP.
P. O. Box 711
Fort Worth, Texas

TEXIZE CHEMICALS, INC.
215 Lawyers Bldg.
Greenville, South Carolina

THOMAS ENTERPRISES, INC.
4801 S. Peoria
Tulsa 5, Oklahoma

TOXITE LABORATORIES, INC.
P. O. Box 29241
Cumberland, Indiana

TRIANGLE CHEMICAL COMPANY
206 Lower Elm St.
Macon, Ga.

UNION CARBIDE CONSUMER PRODUCTS
CO.
Div. of Union Carbide Corp.
270 Park Avenue
New York 17, New York

UNION CARBIDE CORPORATION
270 Park Avenue, 25th Floor
New York 17, New York

UNITED-HECKATHORN
600 S. 4th St.
Richmond, Calif.

U. S. BORAX & CHEMICAL CORP.
630 Shatto Place
Los Angeles 5, Calif.

U. S. RUBBER COMPANY
Naugatuck Chemical Div.
Naugatuck, Conn.

VACCINOL CHEMICAL COMPANY
2487 Penn., Box 3205
Memphis 9, Tenn.

VAN BRODE MILLING CO., INC.
20 Cameron Street
Clinton, Mass.

VANDERBILT CO., INC., R. T.
230 Park Avenue
New York 17, New York

VAPOR PRODUCTS COMPANY
P. O. Box 8294
5230 Kuhl Ave.
Orlando, Fla.

VAPORETTE, INC.
2416 South Harwood
Dallas 1, Texas

VESTAL LABORATORIES, INC.
4963 Manchester
St. Louis 10, Missouri

VIKON CHEMICAL COMPANY
P. O. Box 277
Elon College, N. C.

VINELAND POULTRY LAB.
P. O. Box 70
Vineland, New Jersey

VINSON CHEMICAL PRODUCTS CO.
4435 N.W. 2nd Avenue
Miami 37, Fla.

VIRGINIA-CAROLINA CHEMICAL CORP.
401 E. Main St.
Richmond, Virginia

VIRGINIA SMELTING COMPANY
West Norfolk
Virginia

WALGREEN CO.
4300 Peterson Avenue
Chicago 46, Illinois

WATKINS COMPANY, THE J. R.
150 Liberty Street
Winona, Minnesota

WECO PRODUCTS CO.
20 N. Wacker Dr.
Chicago 6, Ill.

WEEVIL-CIDE COMPANY, THE
1323 Union Avenue
Kansas City, Missouri

WEIL-ELLIOTT CHEMICAL CO., INC.
401 N. 37th Street
Louisville 12, Ky.

WELLS & CO., INC., S. C.
1-3 Church St.
LeRoy, New York

WESTCHESTER VETERINARY PRODUCTS
Div. of Combe Chem., Inc.
180 Mamaroneck Ave.
White Plains, New York

WEST DISINFECTING DIV.
West Chemical Products
42-16 West Street
Long Island City 1, New York

WESTON PRODUCTS COMPANY
330 W. Salisbury St.
Asheboro, North Carolina

WHITMIRE RESEARCH LABS., INC.
339 S. Vandeventer Ave.
St. Louis 10, Missouri

WHITMOYER LABORATORIES, INC.
19 N. Railroad St.
Myerstown, Pa.

WILSON CHEMICAL DIST. CO.
Lodge & Spruce Sts.
Wilson, N. C.

WILSON, INC., ANDREW
Baltusrol Way
Springfield, New Jersey

WINDSOR WAX CO., INC.
611 Newark St.
Hoboken, New Jersey

WINN CHEMICAL COMPANY, INC.
Rt. #3, Box 427
Anniston, Ala.

WINN-DIXIE STORES
P. O. Box 840
Greenville, South Carolina

WOODLETS, INC.
2048 Niagara Street
Buffalo 7, New York

WOOD RIDGE CHEMICAL CORPORATION
Park Place East
Wood Ridge, New Jersey

WOOLFOLK CHEMICAL WORKS, LTD.
East Main Street
Fort Valley, Ga.

WOOD TREATING CHEMICALS COMPANY
5137 Southwest Ave.
St. Louis 10, Missouri

WORRELL-CONSOLIDATED LAB., INC.
1470 S. Vandeventer Ave.
St. Louis 10, Missouri

WRIGHT CO., INC., M. A.
505 Court St.
Brooklyn 31, New York

WYATT-QUARLES SEED CO.
327 S. Wilmington St.
Raleigh, North Carolina

WYETH LABORATORIES
Div. of American Home Products Corp.
Box 8299
Philadelphia 1, Pennsylvania

YALE CHEMICAL COMPANY
P. O. Box 715
Nashville, Tenn.

ZUMMACH, INC., WM. F.
120 E. Mineral Street
Milwaukee 4, Wisconsin

N. C. Aerial Crop Dusting Law and Regulations

The North Carolina Aerial Crop-Dusting Law, enacted by the General Assembly of 1953, has passed through its eighth year of enforcement. Its purposes are to protect public health and welfare, to bring improved order in the aerial dusting industry and to eliminate practices which were not in the best interest of the industry or those whom it serves. Marked progress has been made, but there is much yet to be accomplished. The North Carolina Aerial Applicators Association and other members of the industry sponsored the law and cooperate in its enforcement.

The law and the regulations promulgated thereunder, in summary, require the registration and licensing of those who engage in the custom application of pesticides by aircraft in this state. Qualifications for license requires adequate knowledge of the proper use and application of pesticides, the dangers involved and precautions necessary in their application.

Annual renewal of all licenses is required. The validity of any license is further restricted to the period of time that coverage by liability bond or insurance for damage by aircraft is in force. The minimum liability coverage is \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident.

Licenses are of two types: Contractors—who contract for the airplane application of pesticides; and Applicators or aviators—those who do the application work. An individual, upon qualification, may procure both licenses. Applicator's licenses, among other things, are contingent on Civil Aeronautics Authority certificates and waiver for low flying.

Licenses may be suspended or revoked if licensees are no longer qualified, for fraudulent, faulty, careless or negligent operations, or for other failure to comply with the requirements of the law. They are automatically nullified upon cancellation or expiration of liability coverage.

The law and regulations are given in the succeeding pages.

N. C. AERIAL CROP-DUSTING LAW

CHAPTER 106, N. C. GENERAL STATUTES.

Article 4B, Aircraft Application of Pesticides

§106-65.13. Definitions. For the purposes of this article:

(1) The term "aircraft" means any contrivance now known or hereafter invented, used or designed for navigation of or flight in, the air.

(2) The term "Board of Agriculture" means the North Carolina Board of Agriculture.

(3) The term "Commissioner" means the Commissioner of Agriculture.

(4) The term "custom application of pesticides" means any application of pesticides by aircraft.

(5) The term "fungi" means all non-chlorophyll-bearing thallophytes (that is, all non-chlorophyll-bearing plants of a lower order than mosses and liverworts), as, for example, but not limited to, rusts, smuts, mildews, molds, yeasts, and bacteria, except those on or in living man or other animals.

(6) The term "fungicide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating fungi or plant disease.

(7) The term "herbicide" means any substance or mixture of substances intended for preventing(destroying, repelling, or mitigating any weed.

(8) The term "insect" means any of the numerous small invertebrate animals generally having the body more or less obviously segmented, for the most part belonging to the class Insecta, comprising six-legged, usually winged forms, as, for example but not limited to, beetles, bugs, bees, and flies, and to other allied classes of arthropods whose members are wingless and usually have more than six legs, as, for example, but not limited to, spiders, mites, ticks, centipedes, and wood lice.

(9) The term "insecticide" means any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any insects which may be present in any environment whatsoever.

(10) The term "person" means any individual, firm, partnership, association, corporation, company, joint stock association, or body politic, or any organized group of persons whether incorporated or not; and includes any trustee, receiver, assignee, or other representative thereof.

(11) The term "pesticide" or "economic poison" means any substance or mixture of substances intended for preventing, destroping, repelling, or mitigating any insects, rodents, fungi, bacteria, weeds, or other forms of plant or animal life or viruses, except viruses on or in living man or other animals, which the commissioner shall declare to be a pest.

(12) The term "weed" means any plant or plant part which grows where not wanted.

§106-65.14. Licenses.

a. It shall be unlawful for any person to engage in custom application of pesticides within this State at any time without a license issued by the Commissioner. Application for a license shall be made to the Commissioner and each application shall contain information regarding the applicant's qualifications and proposed operations and such other relevant matters as may be required pursuant to regulations promulgated by the Board of Agriculture.

b. The Commissioner may require the applicant to show, upon examination, that he possesses adequate knowledge concerning the proper use and application of pesticides, and the dangers involved and precautions to be taken in connection with their application. If the applicant is other than an individual, the applicant shall designate an officer, member, or

technician of the organization to take the examinations, such designee to be subject to the approval of the Commissioner. If the extent of the applicant's operations warrant it, the Commissioner may require more than one officer, member or technician to take the examination.

c. If the Commissioner finds the applicant qualified, the Commissioner shall issue a license, which shall authorize the licensee to perform custom application of pesticides within this State. The license may restrict the applicant to the use of a certain type or types of materials if the Commissioner finds that the applicant is qualified to use only such type or types. If a license is not issued as applied for, the Commissioner shall inform the applicant in writing of the reasons therefor. All licenses issued under this article shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

d. The Commissioner may suspend, pending inquiry, for not longer than ten days, after opportunity for a hearing, may revoke, or modify the provisions of any license issued under this section, if he finds as a fact that the licensee is no longer qualified or has engaged in fraudulent business practices in the custom application of pesticides, or has made any custom application in a faulty, careless, or negligent manner, or has violated any of the provisions of this article or regulations made thereunder.

e. The Commissioner may require, under such rules and regulations as may be promulgated under this article, from each applicant a liability bond against damage to person or property by aircraft and a reasonable performance bond with sufficient surety satisfactory to the Commissioner, which performance bond is to secure the performance of contractual obligations of the licensee with respect to custom application of pesticides. Any person injured by the breach of any such obligation or any person damaged by such aircraft shall be entitled to sue on the bond in his own name in any court of competent jurisdiction to recover the damages he may have sustained.

f. Any person aggrieved by any action of the Commissioner may within ten days after notice thereof request a review of said action by the Board of Agriculture. If no request for review is so made, the decision of the Commissioner shall be final. If a review is so requested, the Board of Agriculture shall promptly review the action of the Commissioner and either affirm or over-rule his action. If the Board of Agriculture affirms the Commissioner, it shall find the facts of the case and the aggrieved person may within thirty days after notice thereof appeal to the Superior Court of the county in which such person resides or to the Superior Court of Wake County and the matter may be heard in or out of chambers. Notice of the appeal shall be served on the Commissioner and within ten days thereafter the Commissioner shall certify and file in the court to which the appeal is taken a transcript of any record pertaining thereto, including a transcript of evidence received. The court shall have jurisdiction to affirm, set aside or modify the action of the Board of Agriculture, *provided*, that the findings of fact as made by said Board, if supported by evidence, shall be conclusive.

Any license which has been suspended or revoked by the Commissioner or Board of Agriculture shall remain suspended or revoked until the laws, and regulations of the Board of Agriculture, have been complied with or until the decision or action of said Commissioner or Board has been set aside by court action.

§106-65.15. Regulations, materials and methods of application.—The Board of Agriculture, after public hearing, may adopt regulations prohibiting the use of materials or methods in custom application of pesticides to the extent necessary to protect health or property and may make such other regulations as it may deem necessary to carry out the provisions of this article. *Provided, however,* such regulations shall not be inconsistent with regulations issued by this State or by the Federal Government respecting safety in air navigation or operation of aircraft and before issuing any regulations directly related to any matter within the jurisdiction of any other official of this State, the Commissioner shall consult with that official with reference thereto.

§106-65.16. Reports.—The Board of Agriculture may by regulation require any licensee to maintain records and furnish reports giving information with respect to particular applications of pesticides and such other relevant information as the Board of Agriculture may deem necessary.

§106-65.17. Information.—The Commissioner may, in cooperation with the North Carolina Agricultural Experiment Station, publish information regarding injury which may result from improper application or handling of pesticides and the methods and precautions designed to prevent such injury.

§106-65.18. Penalties.—Any person violating the provisions of this article or the regulations issued hereunder shall be guilty of a misdemeanor and upon conviction shall be fined or imprisoned or both in the discretion of the court.

§106-65.19. Enforcement.—For the purpose of carrying out the provisions of this article the Commissioner may enter upon any public or private premises at reasonable times in order to have access for the purpose of inspecting any aircraft or materials subject to this article.

§106-65.20. Delegation of Duties.—The functions vested in the Commissioner by this article may be delegated by him to such employees of the Department of Agriculture or other qualified persons as the Commissioner may from time to time designate for such purposes.

§106-65.21. Cooperation.—The Commissioner may cooperate with any other agency of this State or its sub-divisions or with any agency of any other State or of the Federal Government for the purpose of carrying out the provisions of this article and of securing uniformity of regulations.

RULES, REGULATIONS, DEFINITIONS AND STANDARDS

CHAPTER XII

Application of Pesticides By Aircraft

ARTICLE 1. APPLICATION OF PESTICIDES BY AIRCRAFT

§12-1. Application for license.—Application for a license to engage in the custom application of pesticides by aircraft shall be made to the Commissioner of Agriculture upon forms prescribed for that purpose and furnished by the Department of Agriculture.

§12-2. Classes of licenses.—There shall be two classes of licenses which shall authorize the holders thereof to engage in the custom application of pesticides to the extent authorized by the license and the rules and regulations of the State Board of Agriculture. The classes of licenses shall be as follows:

(a) Contractor's license. A contractor's license shall authorize the holder thereof to contract for the aerial application of pesticides.

(b) Airplane Applicator's License. An airplane applicator's license shall entitle the holder thereof to apply pesticides as contracted for by the holder of an operator's license.

§12-3. Examination for license.—Before any license is issued, the Commissioner may require the applicant to undergo such examination and to submit such other information as the Commissioner in his discretion may deem necessary for a proper determination of the applicant's qualifications.

§12-4. Modification, revocation or suspension of license.—All licenses are subject to modification as to terms and privileges and may be revoked or suspended by the Commissioner of Agriculture according to the provisions of G.S. 106-65.14. Licenses may be issued for periods of less than one year but all licenses shall expire on December 31 of each year and may be renewed upon the filing of a new application therefor.

§12-5. Display of license.—All holders of contractor's or airplane applicator's licenses shall keep their licenses conspicuously posted at their place of business or about their person when engaged in the application of pesticides by aircraft and shall show their license upon request. Upon satisfactory proof of the loss or destruction of a license, a duplicate thereof may be issued to the qualified holder.

§12-6. Liability bond.—No airplane applicator's license shall be issued unless the applicant submits to the Commissioner of Agriculture along with the application for license a liability insurance policy covering said applicant and the person or persons for whom the custom application of pesticides is to be made against liability for damage to all persons or property caused by said aircraft. Said liability insurance policy shall cover at least \$5,000.00 for property damage, \$10,000.00 for personal injury, and \$20,000.00 for any one accident; and shall be required to be in force for the duration

of the applicant's license: Provided, however, it is not the intent of this regulation for any liability insurance policy to cover damages resulting from the application of pesticides, but only for damages caused by aircraft.

§12-7. Report and records.—Each contractor shall maintain daily reports and records on forms satisfactory to the Commissioner and all such reports and records shall be kept open and available for inspection by any authorized representative of the Department of Agriculture. Each contractor shall also submit to the Commissioner of Agriculture on or before December 31 of each year an annual report on forms furnished by the Commissioner, covering in detail the contractor's activities for the period covered by the report.

§12-8. Responsibility of contractors and applicators.—All contractors and applicators shall be responsible for the proper use and maintenance of equipment and for the proper use and application of pesticides; and shall at all times use due care for the protection of surrounding property, crops, fish ponds, plants and livestock. Any contractor or applicator who violates or disregards the provisions of this regulation or who makes any custom application in faulty, careless, or negligent manner shall have his license suspended or revoked according to the provisions of G.S. 106-65.14.

(Adopted: June 22, 1953)

(Authority: G. S. 106-65.15)

Licensees Under N. C. Aerial Crop-Dusting Law for 1961

This list gives the names of firms or individuals who registered with the North Carolina Department of Agriculture and were issued licenses as Contractors, Applicators, or both, for the year 1961. Each type of license is indicated in connection with the respective name of individual or firm as given in the list.

All licenses expire December 31, 1961, or earlier according to expiration of insurance coverage and are subject to renewal for operations in 1962.

ALAMANCE AVIATION SERVICE, INC.

Box 1331
Burlington, North Carolina
Contractor

MARVIN F. ANGE

Route 1, Box 112
Plymouth, North Carolina
Contractor

JACK B. ARMSTRONG

P. O. Box 1231
New Bern, North Carolina
Applicator

A-Z SPRAYING SERVICE

Columbus Hotel
Whiteville, North Carolina
12004 Fagus Court
Jacksonville, Florida
Contractor

W. H. BAGGETT

Baggett Dusting Service
c/o General Delivery
Scotland Neck, North Carolina
603 S. 22nd Street
Ft. Pierce, Florida
Applicator and Contractor

JOE K. BALL, JR.

Ball Well Company
Route 3
Louisburg, North Carolina
Applicator and Contractor

MILTON R. BARNES

P. O. Box 334
Greensboro, North Carolina
Applicator

LLOYD H. BARNWELL

Barnwell Flying Service
826 N. Daughtry Street
Douglas, Georgia
c/o Kittrell Livestock
Corapeake, North Carolina
Applicator and Contractor

MAURICE N. BRADFORD

2208 Ivy Road
Kinston, North Carolina
Applicator

FRAZIER MACK BRAME

Reidsville, North Carolina
Applicator

RANDOLPH K. BROWN

Route 1, School House Road
Horse Shoe, North Carolina
Homestead, Florida
Applicator

PERRY P. BRYANT

Smith's Motel
Greenville, North Carolina
Bluefield, Virginia
Applicator

OSCAR B. CASE

Case Dusting Service
55 Mt. Airy Street
Hendersonville, North Carolina
Applicator and Contractor

H. H. CHRISTOPHER

Christopher Dusting Service, Inc.
Box 446
Raeford, North Carolina
Box 716
Okeechobee, Florida
Applicator and Contractor

CLINTON FLYING SERVICE

P. O. Box 63
Clinton, North Carolina
Contractor

DONALD RAY COBLE

Washington Airport
Washington, North Carolina
Applicator

JAMES O. COMPTON, JR.

Compton's Flying Service
P. O. Box 362
South Boston, Virginia
Applicator and Contractor

THOMAS EDWARD COMPTON

Route 2
Ringgold, Virginia
Applicator and Contractor

E. L. COX

546 Homewood Avenue
Burlington, North Carolina
Applicator

CRAFT SPRAYING INC.

Box 504
Farmville, North Carolina
Contractor

J. L. DARR, JR.

P. O. Box 1905
High Point, North Carolina
Applicator

JAMES L. DeHAVEN

P. O. Box 488
Ahoskie, North Carolina
Applicator

C. G. DICKENS

Route 2
King, North Carolina
Winston-Salem, North Carolina
Applicator

CORYDON MEAD EASTWOOD, JR.

Franklin, North Carolina
P. O. Box T
Lafayette, Louisiana
Applicator

JAMES ELLIS

Route 3, Box 69
Shelby, North Carolina
Applicator

CRAIG ELROD

Helicopter Industries Corp.
Route 3, Byrum Drive
Charlotte, North Carolina
2626 Sharon Road, Charlotte, N. C.
Applicator and Contractor

LLOYD A. ESH

Route 3
Clinton, North Carolina
Applicator

WESLEY F. EDWARDS

Seaboard, North Carolina
3327½ Avenue J, N. W.
Winter Haven, Florida
Applicator and Contractor

GEORGE A. EWELL

Box 101
Washington, North Carolina
Applicator

J. R. FLICKINGER

P. O. Box 84
Elizabeth City, North Carolina
Applicator

DOVER FOGLEMAN

Box 1331
Burlington, North Carolina
Applicator

T. A. FOUNTAIN

Richlands, North Carolina
Applicator

SIDNEY E. GIBBS

Route 2
King, North Carolina
Applicator

GREENVILLE AVIATION INC.

P. O. Box 231
Washington, North Carolina
Contractor

WALTER RAY GRIFFIN

Griffin Flying Service
Route 1
Summerfield, North Carolina
Applicator and Contractor

WAYNE J. HENNINGES

P. O. Box 1231
New Bern, North Carolina
Applicator

HIGH POINT TRINITY AIR SERVICE

P. O. Box 1905
High Point, North Carolina
Contractor

WALTER E. HIGHT, JR.

P. O. Box 274
Henderson, North Carolina
Applicator

HOLLEY'S DUSTING SERVICE, INC.

Hendersonville, North Carolina
Box 945
Homestead, Florida
Contractor

IDEAL DUSTING & SPRAYING SERVICE

Route 1
Chinquapin, North Carolina
Contractor

JERNIGAN SPRAY SERVICE, INC.

P. O. Box 488
Ahoskie, North Carolina
Contractor

PERRY WALTER JONES

325 Spring Street
Hendersonville, North Carolina
Applicator

ROBERT M. KEENAN

411 W. 5th Street
Greenville, North Carolina
Applicator

KING FLYING SERVICE

Route 2
King, North Carolina
Contractor

CLAIR KLINGER

Box 285
Ocoee, Florida
Applicator

LANE & MINGES, CROP DUSTING & SPRAYING

Route 2, River Road
Box 138
Washington, North Carolina
Contractor

ROBERT C. LANGSTON

Greenville, North Carolina
Arlington 6, Virginia
Applicator

JAMES R. LEVRETT

c/o Craft Spraying, Inc.
Box 504
Farmville, North Carolina
1333 Thompson Street
Glendale, California
Applicator

PAUL LINN

c/o King's Flying Service
King, North Carolina
Applicator

R. DWIGHT LOHR

General Delivery
Archdale, North Carolina
Applicator

JACK LOWERS

AAA Flying Service
Route 3, Box 22-B
Clinton, North Carolina
Applicator and Contractor

JIMMIE FLETCHER MARKHAM

Box 504
Farmville, North Carolina
Greenville, North Carolina
Applicator

ERNEST H. MARSHALL
Route 1, School House Road
Horse Shoe, North Carolina
Homestead, Florida
Applicator

GEORGE B. MARSHALL
Route 1, School House Road
Horse Shoe, North Carolina
Applicator

LELAND S. McMAHON
Reidsville, North Carolina
Applicator and Contractor

S. S. MILLER
Reidsville, North Carolina
Chatham, Virginia
Applicator

RICHARD BERYL MINGES
Route 2, River Road
Box 138
Washington, North Carolina
Applicator

CLARENCE T. MODLIN
205 Wilson Street
Laurinburg, North Carolina
Applicator

PERTTI A. MUTTILAINEN
813 W. Church
Laurinburg, North Carolina
Applicator

R. D. NANCE
Winston-Salem, North Carolina
Applicator

JAMES A. NAYLOR
Box 132
Clinton, North Carolina
Applicator

R. A. NAYLOR
P. O. Box 63
Clinton, North Carolina
Applicator

MARSHALL J. NEWMAN
Route 1
Clinton, North Carolina
Applicator

NEIL F. OLESON
Wilson Air Service
Wilson, North Carolina
Greenville, North Carolina
Applicator and Contractor

DELMAR C. OWENS
Owens Crop Dusting Service
P. O. Box 183
Columbia, North Carolina
Applicator and contractor

PAMLICO FLYING SERVICE
413 Avenue A
New Bern, North Carolina
Contractor

GROVER T. PARKS
Route 1
Climax, North Carolina
Applicator and Contractor

PETROLEUM HELICOPTERS, INC.
P. O. Box T
Lafayette, Louisiana
Contractor

RALPH G. PHILPOTT
1495 Airview Drive
Mt. Airy Airport
Mt. Airy, North Carolina
Applicator

DILLARD M. POWELL
Ruffin, North Carolina
Contractor

F. M. POWELL
1705 Powatan Street
Fayetteville, North Carolina
Applicator and Contractor

JAMES C. PRICE
Route 1, Airport Road
Dillon, South Carolina
Applicator and Contractor

JOHN C. PULLEY
Route 3
Marianna, Florida
c/o Turner's Flying Service
Henderson, North Carolina
Applicator

WILLIAM RAPER
Box 101
Washington, North Carolina
Route 1
Rome, Ohio
Applicator

CLAUDE MITCHELL RIDDLE
Dobson, North Carolina
Applicator

ROCKY MOUNT DUST & SPRAY
COMPANY, INC.
Rocky Mount, North Carolina
Contractor

PAT SCHIFFER
Route 3, Box 22-B
Clinton, North Carolina
222 Allegan Street
Plainwell, Michigan
Applicator

SCOTLAND FLYING SERVICE, INC.
205 Wilson Street
Laurinburg, North Carolina
Contractor

JEREMY DAVID SCOTT
c/o King's Flying Service
King, North Carolina
Applicator

LEO LOVE SELLS
1800 Evergreen Drive
Charlotte, North Carolina
Applicator

LINDY SHEPHERD, JR.
Lindy Shepherd's Airplane Spraying
Service
2516 West Front Street Ext.
Burlington, North Carolina
Applicator and Contractor

NATHAN M. SIMPSON
Simpson Crop Service
RFD 2
Elon College, North Carolina
Applicator and Contractor

SMITH CHEMICAL COMPANY, INC.
Box 72
Greenville, North Carolina
Contractor

SOUTH EASTERN AIR SERVICE, INC.

P. O. Box 334
Greensboro, North Carolina
Contractor

THOMAS F. STANCIL

Stancil Flying Service
P. O. Box 101
Washington, North Carolina
White Lake, North Carolina
Applicator and Contractor

HILTON ROY SULLIVAN

101 Meadowspring Road
Richmond, Virginia
Chase City Airport
Chase City, Virginia
Applicator and Contractor

STANLEY S. SVRLINGA

General Delivery
Laurinburg, North Carolina
P. O. Box 421
Zellwood, Florida
Applicator and Contractor

CARL A. SWERTFEGER, JR.

Box 84
Elizabeth City, North Carolina
Norfolk, Virginia
Applicator

GENE A. SWOFFORD

Apt. 14, Green Court Apts.
Washington, North Carolina
c/o Marvin Ange
Route 1, Box 112
Plymouth, North Carolina
Applicator

AYLOR T. TALBOTT

Aylor's Crop Spraying Service
Wm. Tuck Airport
South Boston, Virginia
Applicator and Contractor

ROBERT M. TASSELL

Columbus Hotel
Whiteville, North Carolina
Applicator

BENJAMIN W. TRUEBLOOD

206 Southern Blvd.
Rocky Mount, North Carolina
Applicator

ROBERT J. TURNER, JR.

Turner's Flying Service
543 Rowland Street
Henderson, North Carolina
Applicator and Contractor

MARLIN E. TUSHA

Box 504
Farmville, North Carolina
200 Cardinal Drive
Woodbridge, Virginia
Applicator

FREDERICK VAUDRIN

P. O. Box 63
Clinton, North Carolina
1101 South 7th Street
Minneapolis 4, Minnesota
Applicator

VERNON VAUDRIN

Vaudrin Air Spray
1101 South 7th Street
Minneapolis 4, Minnesota
P. O. Box 63
Clinton, North Carolina
Applicator and Contractor

ALBERT RALPH VAUGHAN

Al's Crop Spraying Service
Route 3
Virgilina, Virginia
Applicator and Contractor

JOSEPH ORR VERNON

411 E. Hendrix
Greensboro, North Carolina
Applicator

GEORGE VONHOLDT

Route 2
King, North Carolina
Fertile, Minnesota
Applicator

GLEN W. WAIT

P. O. Box 231
Washington, North Carolina
Forrest, Illinois
Applicator

GEORGE D. WALTERS

P. O. Box 84
Elizabeth City, North Carolina
Applicator and Contractor

H. C. WARF

Warf's Flying Service
Route 6
Reidsville, North Carolina
Applicator and Contractor

A. J. WARREN

Route 3, Box 22-B
Clinton, North Carolina
Applicator

GEORGE A. WECKERLE

2305 Shell Road
Hampton, Virginia
188 N. 9th Street
Lindenhurst, New York
Applicator

FRED WHITFIELD

Fred's Spray Service
Route 7
Burlington, North Carolina
Applicator and Contractor

ROBERT O. WHITFIELD

Whitfield Airplane Spraying
Route 2
Hurdle Mills, North Carolina
Applicator and Contractor

JOHN H. WHITTINGTON

Box 504
Farmville, North Carolina
1920 East Way Drive
Charlotte, North Carolina
Applicator

DANIEL W. WILLIAMS

Lloyd Street
Clinton, North Carolina
Applicator

YADKIN VALLEY, INC.

Route 1
Pfaftown, North Carolina
Contractor

J. C. YORK

Ramseur, North Carolina
Applicator

LONNIE YORK

Route 2, Box 214
Ramseur, North Carolina
Contractor

**Official Analyses
of
Economic Poisons
1961**

Summary of Economic Poisons Examined — 1961

T Y P E S	S A M P L E S				
	Passed	De- ficient	Exces- sive Active Ingre- dient	Mis- branded	Not Regis- tered
Arsenicals					
Arsenic Trioxide	16	7	4	....	....
Calcium Acid Methyl Arsonate	1	....	....	....	....
Calcium Arsenate	3	....	....	....	....
Disodium Methyl Arsonate	1	....	....	....	....
Lead Arsenate	6	....	....	....	....
Sodium Arsenate	2	....	1	....	....
Organic Chlorine Compounds					
Aldrin preparations	23	3	....	....	....
BHC preparations	24	....	....	....	....
BHC-DDT preparations	48	6	....	....	....
Captan preparations	2	....	....	....	1
Chlordane preparations	55	7	....	....	3
2,4-D; 2,4,5-T compounds	12	....	....	....	....
DDD preparations	51	9	....	....	....
DDT	94	12	....	1	2
DDT with other materials	79	22	2	....	4
Dieldrin preparations	17	1	....	....	2
Endrin preparations	58	2	....	....	....
Heptachlor	19	1	....	....	1
Korlan	2	....	....	....	....
Methoxychlor preparations	38	9	....	....	....
Nemagon	2	2	....	....	....
Paradichlorobenzene	1	....	....	....	1
Pentachlorophenol	1	....	....	....	....
Perthane preparations	2	....	....	1	....
Phaltan	1	....	....	....	....
Silvex compounds.....	2	....	....	....	....
Terpene Polychlorinates .....	....	1	....	....	....
Thiodan	9	....	....	....	....
Toxaphene preparations	125	7	....	....	1
Metallic Compounds					
Copper	8	....	....	....	....
DDVP	1	....	1	....	....
Calcium Polysulfide	1	....	....	....	....
Guthion	1	....	....	....	....
Malathion preparations	75	19	3	1	2
Metallic Dithiocarbamate preparations	16	8	....	....	....
Methyl Parathion	2	....	....	....	....
Parathion preparations.....	4	1	....	....	....
Potassium Cyanate .....	....	....	....	....	1
Thallium Sulfate	5	....	....	....	....
Botanicals					
Nicotine	1	....	....	....	....
Pyrethrin preparations	25	....	....	1	....
Rotenone preparations	83	29	....	2	3
Sabadilla preparations	13	6	....	....	1
Miscellaneous					
Boric Acid	2	....	....	....	....
Capryl	1	....	....	....	....
Carbon disulfide .....	....	....	....	1	....
Chlorine compounds	7	2	1	....	....
Fumarlin	2	....	....	....	....
Naphthalene.....	1	....	....	....	....
Phenols .....	....	1	....	....	....
Pivalyn	4	....	....	....	....
Sevin preparations	34	3	1	....	....
Sodium Chlorate-Sodium Metaborate.....	1	....	....	....	....
Strychnine	1	....	....	....	....
Warfarin	6	....	....	....	....
TOTALS	988	158	13	7	22

Number manufacturers registered (total)	409
Number manufacturers registered from North Carolina	55
Number of items registered	4,297
Number stop sale orders issued	158
Number of items stopped from sale because of failure to register	58

Decisions

The results of analyses of economic poisons are tabulated in the following pages. For the reader's ready interpretation of the analyses, designations used are explained in the following paragraphs.

"Passed" signifies that the labeling and composition of the product satisfactorily complied with guarantees and requirements. Small deviations in analyses are normal.

"Deficient" usually signifies that one or more ingredient fell significantly below guarantee, although it may also indicate an excess of a harmful ingredient, as in case of water-soluble arsenic. Such products, in most instances, qualify as unsatisfactory and are subject to "Stop Sale Order" and removal from the market for reprocessing or relabeling, in borderline cases, where exact values are indeterminate, the product is qualified as deficient but the manufacturer cautioned. In some instances where such goods have been used before analysis could be completed, the manufacturer has made settlement satisfactory to the user.

"Adulterated" indicates that significant quantities of undeclared active ingredients were present. Since proof of adulteration disqualifies a product, analysis may be discontinued at that point thus saving further expenditure of time and work. Such lots, batches or brands are stopped from sale and other appropriate action taken.

"Misbranded" signifies that labeling failed to conform to requirements. Omission of some item or statement is a more common flaw. Among these may be proper ingredient listing, skull and crossbones, "Poison" in red and an antidote where these are required; net contents by weight or volume; class of, and unsulfonated residues of petroleum oils; and percentages of alkaloids instead of crude product such as sabadilla seed.

In some instances of misbranding the defect appeared to be inadvertent or of a minor nature. It appeared permissible and fair to allow the manufacturer time for correction. In others, removal from sale was necessary.

"Not Registered" signifies that the product was not registered at the time it was sampled. Prompt registration is required or the product is removed from sale.

As has been the practice in past work, analyses were made largely for those ingredients which were considered of major importance, as, for example, gamma isomer of benzene hexachloride, whereas other isomers were not checked. For sake of brevity, items not generally checked are not listed in the tabulations. This should not be taken to indicate that manufacturers did not include them on labels. This procedure has been followed because it enables a broader coverage of all products offered for sale.

Official Analysis of Economic Poisons, 1961

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions*
ALDRIN			
Atlas Agricultural Chemicals, Inc.			
Atlas Aldrin			
Aldrin	24.00	22.36	Deficient
California Spray-Chemical Corp.			
(Now: California Chemical Company—Ortho Div.)			
Ortho Aldrin 5 Granular			
Aldrin	5.00	5.32	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand Aldrin Emulsion 2 lbs.			
Aldrin	24.50	26.38	Passed
do	24.50	26.75	Passed
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand Emulsion 2 lbs.			
Aldrin	24.50	26.66	Passed
Carolina Brand Aldrin Emulsion 4 lbs.			
Aldrin	44.00	46.01	Passed
do	44.00	44.13	Passed
Daly-Herring Company			
Dee Aitch Aldrin Emulsifiable Concentrate			
Aldrin	24.50	23.72	Passed
do	24.50	24.62	Passed
Farmers Cooperative Exchange, Inc.			
FCX Aldrin Emulsifiable Concentrate			
Aldrin	23.32	25.28	Passed
do	23.32	22.38	Passed
Olin Mathieson Chemical Corp.			
Aldrin 10% Granular			
Aldrin	10.00	9.93	Passed
do	10.00	9.72	Passed
Aldrin 4 lb. Emulsifiable			
Aldrin	42.74	37.98	Deficient
do	42.74	40.69	Passed
do	42.74	40.72	Passed

*See preceding page for explanation of "Decisions."

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Peele Company, Inc.			
Pelco 5% Aldrin Granulated			
Aldrin	5.00	4.50	Deficient
Pelco 2 lbs. Aldrin Emulsifiable Concentrate			
Aldrin	24.50	23.63	Passed
Planters Chemical Corp.			
Planters 5% Aldrin Granular			
Aldrin	5.00	5.54	Passed
do	5.00	5.68	Passed
Planters Aldrin Emulsion Concentrate			
Aldrin	24.50	23.34	Passed
do	24.50	23.72	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand Aldrin Emulsible Concentrate			
Aldrin	24.74	24.92	Passed

ALDRIN-CAPTAN

California Spray-Chemical Corp.
(Now: California Chemical Company—Ortho Div.)

Ortho Bird Repellent			
Aldrin	20.00		Passed
Captan	12.50		
Theoretical chlorine	16.06	15.60	

ALDRIN-DDT

W. R. Grace and Company
Davison Chemical Division

Naco Aldrin Equivalent Cotton Dust			
Aldrin	2.50		Passed
DDT	10.00		
Theoretical chlorine	6.63	6.96	

W. R. Peele Company, Inc.

Pelco 2½% Aldrin 7% DDT Dust			
Aldrin	2.50		Passed
DDT	7.00		
Theoretical chlorine	4.95	4.91	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ARSENICALS			
ARSENIC TRIOXIDE			
M. A. Chapman and Son			
Kill-Em Rat Poison			
Arsenic trioxide	2.00	2.21	Passed
do	2.00	2.45	Passed
do	2.00	1.97	Passed
do	2.00	2.06	Passed
do	2.00	2.17	Passed
do	2.00	1.75	Deficient
do	2.00	1.88	Deficient
do	2.00	1.68	Deficient
do	2.00	1.88	Deficient
do	2.20	2.09	Passed
S. L. Cowley and Sons			
Cowley's Rat and Mouse Poison			
Arsenic trioxide	1.75	1.86	Passed
F. B. Singletary Jr. and Company			
Singletary's Rat and Mouse Exterminator			
Arsenic trioxide	3.00	2.97	Passed
Singletary's Single Treatment Pest Control			
Arsenic trioxide	3.50	3.93	Passed
do	3.50	4.61	Passed
do	3.50	3.67	Passed
do	3.50	3.89	Passed
do	3.50	3.97	Passed
do	3.50	4.40	Passed
do	3.50	2.81	Deficient
do	3.50	3.01	Deficient
do	3.50	5.27	Excessive
			Active
do	3.50	3.31	Deficient
do	3.50	5.05	Excessive
			Active
do	3.50	5.31	Excessive
			Active
do	3.50	5.06	Excessive
			Active
			Ingredient
Southern Chemical Company			
Nok-Out Bam			
Arsenic trioxide	3.00	3.82	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Winn Chemical Company, Inc.			
Winn's Rat Poison			
Arsenic trioxide	2.20	2.32	Passed

CALCIUM ACID METHYL ARSONATE**Amchem Products, Inc.**

Liquid Weedone Crab Grass Killer (contains Calar)

Calcium acid methyl arsonate.....	10.30		Passed
Total arsenic	5.00	4.89	

CALCIUM ARSENATE-COPPER**Woolfolk Chemical Works, Ltd.**

Security Brand Tomato Dust

Tricalcium arsenate	60.00		Passed
Copper	7.00	6.67	
Arsenic as metallic.....	22.69	23.23	
Arsenic-water soluble (not more than)	0.49	0.05	

CALCIUM ARSENATE-METALDEHYDE**Boyle-Midway, Inc.**

Snarol Pellets

Tricalcium arsenate	5.00	5.10	Passed
Metaldehyde	3.15	3.72	

United Cooperatives, Inc.

(Registered by Farmers Cooperative Exchange, Inc.)

Unico Snail and Slug Pellets

Calcium arsenate	5.00	5.42	Passed
Metaldehyde	3.20	3.41	

DISODIUM METHYL ARSONATE**O. M. Scott and Sons Company**

Clout (Herbicide)

Disodium methyl arsonate hexa- hydrate	2.50	3.59	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
LEAD ARSENATE			
Acme Quality Paints, Inc.			
Acme Arsenate of Lead			
Lead arsenate.....	98.00		Passed
Arsenic as metallic.....	21.15	22.90	
Arsenic-water soluble (not more than)	0.50	0.19	
Lead as metallic.....	58.00	58.80	
Allied Chemical Corp.			
General Chemical Division			
Orchard Brand Astringent Lead Arsenate			
Lead arsenate.....	97.00		Passed
Arsenic as metallic.....	20.30	21.32	
Arsenic-water soluble (not more than)	0.25	0.013	
Lead as metallic.....	57.90	59.03	
Chipman Chemical Company, Inc.			
Chipman Hi-Test Lead Arsenate			
Lead arsenate.....	98.00		Passed
Arsenic as metallic.....	21.00	21.46	
Arsenic-water soluble (not more than)	0.35	0.16	
Lead as metallic.....	58.00	58.36	
Lead arsenate.....	98.00		Passed
Arsenic as metallic.....	21.00	23.55	
Arsenic-water soluble (not more than)	0.35	0.21	
Lead as metallic.....	58.00	58.17	
United Cooperatives, Inc.			
(Registered by—Farmers Cooperative Exchange, Inc.)			
Unico Lead Arsenate			
Lead arsenate	96.00		Passed
Arsenic as metallic.....	20.72	20.81	
Lead as metallic.....	58.00	59.12	
LEAD ARSENATE-CAPTAN-DDT			
United Cooperatives, Inc.			
(Registered by—Farmers Cooperative Exchange, Inc.)			
Unico Fruit Spray Powder General Purpose			
Lead arsenate.....	25.00		Passed
Arsenic as metallic.....	5.39	5.49	
Arsenic-water soluble (not more than)	0.50	0.23	
Captan.....	10.00		
DDT.....	10.00		
Theoretical chlorine.....	8.54	8.14	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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SODIUM ARSENATE**Atla Chemical Company, Inc.**

Atla Anti-Ant

Sodium arsenate	1.88	2.06	Passed
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Harris Products Company, Inc.

Ant Buttons

Sodium arsenate.....	1.71	3.29	Excessive Active Ingredient
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Mahaffey Company

Mahaffey's Rat Killer

Sodium arsenate.....	2.50	3.23	Passed
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BHC**California Spray-Chemical Corp.**

(Now: Califormit Chemical Company—Ortho Div.)

Ortho Louse Tick and Flea Powder

Gamma isomer of BHC.....	1.00	1.07	Passed
do	1.00	1.10	Passed

Ortho Isotox 25 Wettable

Gamma isomer of BHC.....	25.00	23.92	Passed
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Farmers Cooperative Exchange, Inc.

25% Lindane Wettable Spray Powder

Gamma isomer of BHC.....	25.00	25.02	Passed
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Dr. LeGear, Inc.

Dr. LeGear's Louse Powder

Gamma isomer of BHC.....	1.00	1.22	Passed
do	1.00	1.12	Passed
do	1.00	1.07	Passed

Dr. L. D. LeGear Medicine Company

(Now: Dr. LeGear, Inc.)

Dr. LeGear's New Louse Powder

Gamma isomer of BHC.....	1.00	1.00	Passed
do	1.00	1.05	Passed
do	1.00	1.15	Passed
do	1.00	1.10	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell Insecticide Company, Inc.			
Maxwell 1 % Lindane Dust			
Gamma isomer of BHC.....	1.00	1.05	Passed
Olin Mathieson Chemical Corp.			
Mathieson Lindane 25 % Wettable Powder			
Gamma isomer of BHC.....	25.00	25.54	Passed
do	25.00	28.57	Passed
Planters Chemical Corp.			
Planters 1 % Gamma Isomer Benzene Hexachloride Dust			
Gamma isomer of BHC.....	1.00	1.00	Passed
Taylor Chemical Company			
Superkill Transplant Solution			
Gamma isomer of BHC.....	5.00	5.01	Passed
United Cooperatives, Inc.			
(Registered by—Farmers Cooperative Exchange, Inc.)			
Unico 12 % BHC Wettable Powder			
Gamma isomer of BHC.....	12.00	12.27	Passed
do	12.00	13.36	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand BHC Concentrate Emulsifiable			
Gamma isomer of BHC.....	11.50	12.21	Passed
BHC-ARAMITE-GLYODIN-KARATHANE			
Nott Manufacturing Company, Inc.			
Tri-Ogen 3 in 1 Rose Spray			
Gamma isomer of BHC.....	2.50		Passed
Aramite	3.00		
Glyodin	12.40		
Karathane	1.58		
Theoretical chlorine	2.15	2.56	
Theoretical nitrogen	1.06	1.37	
BHC-CAPTAN			
California Spray-Chemical Corp.			
(Now: California Chemical Company-Ortho Div.)			
Ortho Isotox 25 Seed Treater (F)			
Gamma isomer of BHC.....	25.00		Passed
Captan.....	12.50		
Theoretical chlorine.....	22.71	22.18	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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BHC-CAPTAN-PIPERONYL-BUTOXIDE PYRETHRINS-ROTENONE

Boyle-Midway, Inc.

Black Flag Rose and Flower Spray

Gamma isomer of BHC.....	1.00		Passed
Captan.....	0.50		
Piperonyl butoxide	0.25	0.27	
Pyrethrins	0.025	0.26	
Rotenone	0.20	Present	
Theoretical chlorine.....	0.91	1.10	

BHC-COPPER

Southern Agricultural Insecticides, Inc.

SA-50 Brand Cucumber and Squash Dust

Gamma isomer of BHC.....	1.00	1.35	Passed
Copper as metallic.....	6.50	6.62	

BHC-DIELDRIN-PYRETHRINS

Penola Oil Company

(Now: Humble Oil and Refining Company)

Flit Pressurized Roach and Ant Killer

Gamma isomer of BHC.....	0.05		Passed
Dieldrin	0.45		
Pyrethrins	0.05	0.06	
Theoretical chlorine	0.29	0.38	

BHC-DDT

California Chemical Company-Ortho Div.

Ortho BHC-DDT 3-5 Dust

Gamma isomer of BHC.....	3.00	3.17	Passed
DDT	5.00	5.09	
Gamma isomer of BHC.....	3.00	3.02	Passed
DDT	5.00	6.11	

Ortho BHC-DDT 3-7 Dust

Gamma isomer of BHC.....	3.00	3.29	Passed
DDT	7.00	6.81	

California Spray-Chemical Corp.

(Now: California Chemical Company-Ortho Div.)

Ortho Gammacide 3-5 Cotton Dust

Gamma isomer of BHC.....	3.00	3.09	Passed
DDT	5.00	5.37	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Ortho BHC-DDT 3-10 Dust			
Gamma isomer of BHC.....	3.00	3.39	Passed
DDT	10.00	10.18	
Carolina Chemicals, Inc.			
Flight Brand BHC-DDT Dust 3-10-0			
Gamma isomer of BHC.....	3.00	3.04	Passed
DDT	10.00	10.76	
Farmers Cooperative Exchange, Inc.			
FCX 3-5-0 BHC DDT Dust			
Gamma isomer of BHC.....	3.00	2.78	Deficient
DDT	5.00	5.79	
W. R. Grace and Company Davison Chemical Division			
Naco Benny-Hex Cotton Dust 3-10-0			
Gamma isomer of BHC.....	3.00	3.29	Passed
DDT	10.00	11.11	
Olin Mathieson Chemical Corp.			
Mathieson 3-5-0 Cotton Dust			
Gamma isomer of BHC.....	3.00	4.13	Passed
DDT	5.00	8.24	
W. R. Peele Company, Inc.			
Pelco 3-5 Cotton Dust			
Gamma isomer of BHC.....	3.00	3.31	Passed
DDT.....	5.00	5.53	
Taylor Chemical Company			
Superkill 3-5-0 Cotton Dust (without Sulfur)			
Gamma isomer of BHC.....	3.00	2.81	Deficient
DDT.....	5.00	5.27	
Gamma isomer of BHC.....	3.00	3.42	Passed
DDT.....	5.00	5.42	
Gamma isomer of BHC.....	3.00	3.31	Passed
DDT.....	5.00	5.80	
Superkill 3-10-0 Cotton Dust (without Sulfur)			
Gamma isomer of BHC.....	3.00	3.29	Passed
DDT.....	10.00	10.68	
Gamma isomer of BHC.....	3.00	2.91	Passed
DDT.....	10.00	10.36	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Superkill 3-10-0 Cotton Dust (without Sulfur) (Continued)			
Gamma isomer of BHC.....	3.00	2.99	Passed
DDT.....	10.00	10.96	
Gamma isomer of BHC.....	3.00	2.93	Passed
DDT.....	10.00	10.53	
Gamma isomer of BHC.....	3.00	3.22	Passed
DDT.....	10.00	10.30	
Gamma isomer of BHC.....	3.00	3.40	Passed
DDT.....	10.00	9.81	
Superkill 3-20 Cotton Dust (without Sulfur)			
Gamma isomer of BHC.....	3.00	3.20	Passed
DDT.....	20.00	21.46	
Woolfolk Chemical Works, Ltd.			
Security Brand 3-5-0 Cotton Dust			
Gamma isomer of BHC.....	3.00	2.96	Passed
DDT.....	5.00	4.75	
Gamma isomer of BHC.....	3.00	3.29	Passed
DDT.....	5.00	6.09	
Security Brand 3-10-0 Cotton Dust			
Gamma isomer of BHC.....	3.00	3.26	Passed
DDT.....	10.00	11.61	
Gamma isomer of BHC.....	3.00	3.40	Passed
DDT.....	10.00	11.26	
Security Brand 3-20-0 Cotton Dust			
Gamma isomer of BHC.....	3.00	3.44	Passed
DDT.....	20.00	20.56	
BHC-DDT-ARAMITE-CAPTAN-DDD			
California Spray-Chemical Corp.			
(Now: California Chemical Company-Ortho Div.)			
Ortho Home Orchard Spray			
Gamma isomer of BHC.....	2.00	14.65	Passed
DDT.....	8.00		
Aramite.....	4.25		
Captan.....	12.50		
DDD.....	8.00		
Theoretical chlorine.....	13.88		

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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BHC-DDT-ARAMITE-ZINEB**Maxwell Insecticide Company, Inc.****Maxwell's New Formula Rose Dust**

Gamma isomer of BHC.....	1.00		Passed
DDT.....	5.00		
Aramite.....	1.50		
Zinc ethylene bisdithiocarbamate....	6.00	6.70	
Theoretical chlorine.....	3.39	3.35	
Gamma isomer of BHC.....	1.00		Passed
DDT.....	5.00		
Aramite.....	1.50		
Zinc ethylene bisdithiocarbamate....	6.00	6.27	
Theoretical chlorine.....	3.39	3.86	
Gamma isomer of BHC.....	1.00		Deficient
DDT.....	5.00		
Aramite.....	1.50		
Zinc ethylene bisdithiocarbamate....	6.00	7.00	
Theoretical chlorine.....	3.39	3.15	
Gamma isomer of BHC.....	1.00		Deficient
DDT.....	5.00		
Aramite.....	1.50		
Zinc ethylene bisdithiocarbamate....	6.00	5.38	
Theoretical chlorine.....	3.39	3.07	

BHC-DDT-CAPTAN-FERBAM-SULFUR**California Spray-Chemical Corp.****(Now: California Chemical Company-Ortho Div.)****Ortho Rose Dust**

Gamma isomer of BHC.....	1.00		Deficient
DDT.....	5.00		
Captan	7.50		
Ferric dimethyl dithiocarbamate.....	3.50	2.68	
Sulfur	30.00	30.45	
Theoretical chlorine.....	5.89	5.62	

BHC-DDT-CAPTAN-SULFUR**Carbola Chemical Company, Inc.****Carbolo Fruit Tree Spray**

Gamma isomer of BHC.....	0.50		Passed
DDT.....	7.00		
Captan	7.50		
Sulfur	33.00	32.11	
Theoretical chlorine.....	6.52	6.68	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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BHC-DDT-KARATHANE-ZINEB**Wirthmore Feeds, Inc.****Big-W Rose Dust**

Gamma isomer of BHC.....	1.25	1.45	Passed
DDT.....	5.00	5.58	
Karathane	1.00		
Zinc ethylene bisdithiocarbamate....	3.90	3.92	
Theoretical nitrogen.....	0.45	0.52	

BHC-DDT-MALATHION-SULFUR-ZINEB**United Cooperatives, Inc.****(Registered by—Farmers Cooperative Exchange, Inc.)****Unico Dust for Ornamentals**

Gamma isomer of BHC.....	1.00		Deficient
DDT.....	5.00		
Malathion	4.00	2.96	
Sulfur.....	25.00	24.73	
Zinc ethylene bisdithiocarbamate....	5.00	5.01	
Theoretical chlorine.....	3.23	3.82	
Gamma isomer of BHC.....	1.00	0.95	Passed
DDT.....	5.00	5.53	
Malathion	4.00	4.90	
Sulfur.....	25.00	25.38	
Zinc ethylene bisdithiocarbamate....	5.00	5.46	
Gamma isomer of BHC.....	1.00	1.09	Passed
DDT.....	5.00	5.50	
Malathion	4.00	4.37	
Sulfur.....	25.00	25.15	
Zinc ethylene bisdithiocarbamate....	5.00	5.09	
Gamma isomer of BHC.....	1.00	0.99	Passed
DDT.....	5.00	5.59	
Malathion	4.00	4.33	
Sulfur.....	25.00	25.02	
Zinc ethylene bisdithiocarbamate....	5.00	4.90	
Gamma isomer of BHC.....	1.00	0.98	Passed
DDT.....	5.00	5.14	
Malathion	4.00	4.37	
Sulfur.....	25.00	25.13	
Zinc ethylene bisdithiocarbamate....	5.00	4.95	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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BHC-DDT-MALATHION-TEDION**California Spray-Chemical Corp.**

(Now: California Chemical Company-Ortho Div.)

Ortho Isotox Garden Spray

Gamma isomer of BHC.....	5.00		Passed
DDT.....	5.00		
Malathion	10.00	10.44	
Tedion (2,4,5,-4'tetrochlorodiphenyl sulfone)	3.00		
Theoretical chlorine.....	7.35	8.89	

BHC-DDT-PARATHION**Taylor Chemical Company****Superkill 3-10-1 Cotton Dust**

Gamma isomer of BHC.....	3.00	3.32	Passed
DDT.....	10.00	11.41	
Parathion	1.00	1.16	

Woolfolk Chemical Works, Ltd.**Security Brand 3-10-2 Cotton Dust**

Gamma isomer of BHC.....	3.00	3.13	Passed
DDT.....	10.00	10.23	
Parathion	2.00	2.04	

BHC-DDT-PHALTAN-SULFUR**California Spray-Chemical Corp.**

(Now: California Chemical Company-Ortho Div.)

Ortho Rose Dust

Gamma isomer of BHC.....	1.00		Passed
DDT.....	5.00		
Phaltan (N-trichloromethyl thiophthalimide)	7.50		
Sulfur.....	30.00	32.10	
Theoretical chlorine.....	5.92	6.06	
Gamma isomer of BHC.....	1.00		Passed
DDT.....	5.00		
Phaltan (N-trichloromethyl thiophthalimide)	7.50		
Sulfur	30.00	30.55	
Theoretical chlorine.....	5.92	6.04	
Gamma isomer of BHC.....	1.00		Passed
DDT.....	5.00		
Phaltan (N-trichloromethyl thiophthalimide)	7.50		
Sulfur	30.00	30.94	
Theoretical chlorine.....	5.92	6.20	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Ortho Rose Dust (Continued)			
Gamma isomer of BHC.....	1.00		Passed
DDT.....	5.00		
Phaltan (N-trichloromethyl thiophthalimide)	7.50		
Sulfur	30.00	30.75	
Theoretical chlorine.....	5.92	5.66	
Gamma isomer of BHC.....	1.00		Passed
DDT.....	5.00		
Phaltan (N-trichloromethyl thiophthalimide)	7.50		
Sulfur	30.00	31.49	
Theoretical chlorine.....	5.92	6.38	

BHC-DDT-PHALTAN-SULFUR-ZINEB**United Cooperatives, Inc.****(Registered by—Farmers Cooperative Exchange, Inc.)****Unico Rose and Floral Dust**

Gamma isomer of BHC.....	1.00		Passed
DDT.....	5.00		
Phaltan (N-trichloromethyl thiophthalimide)	5.00		
Sulfur	25.00	24.44	
Zinc ethylene bisdithiocarbamate....	5.00	5.41	
Theoretical chlorine.....	5.02	4.97	
Gamma isomer of BHC.....	1.00		Passed
DDT.....	5.00		
Phaltan (N-trichloromethyl thiophthalimide)	5.00		
Sulfur	25.00	24.77	
Zinc ethylene bisdithiocarbamate....	5.00	5.02	
Theoretical chlorine.....	5.02	4.99	
Gamma isomer of BHC.....	1.00		Passed
DDT.....	5.00		
Phaltan (N-trichloromethyl thiophthalimide)	5.00		
Sulfur	25.00	24.90	
Zinc ethylene bisdithiocarbamate....	5.00	5.11	
Theoretical chlorine.....	5.02	5.20	

BHC-DDT-SULFUR**Farmers Cooperative Exchange, Inc.****FCX 3-5-40 BHC-DDT-Sulfur Dust**

Gamma isomer of BHC.....	3.00	3.05	Passed
DDT	5.00	6.21	
Sulfur	40.00	39.18	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Taylor Chemical Company			
Superkill 3-5-40 Cotton Dust			
Gamma isomer of BHC.....	3.00	3.25	Passed
DDT	5.00	6.33	
Sulfur	40.00	40.77	
Gamma isomer of BHC.....	3.00	3.28	Passed
DDT	5.00	5.36	
Sulfur	40.00	41.38	
Superkill 3-10-40 Cotton Dust			
Gamma isomer of BHC.....	3.00	3.05	Passed
DDT	10.00	10.22	
Sulfur	40.00	42.52	
Woolfolk Chemical Works, Ltd.			
Security Brand 3-5-40 Cotton Dust			
Gamma isomer of BHC.....	3.00	3.02	Passed
DDT	5.00	6.48	
Sulfur	40.00	39.89	
BORIC ACID-CHLORDANE			
Heller Laboratories, Inc.			
\$1000.00 Guaranteed Roach Killer			
Boric acid.....	51.00	48.52	Passed
Chlordane	0.20	0.40	
Boric acid.....	51.00	51.95	Passed
Chlordane	0.20	0.31	
CAPTAN			
California Chemical Company-Ortho Div.			
Orthocide 50 Wettable (50%)			
Captan	50.00	52.91	Passed
Science Products Company, Inc.			
Science Rose and Garden Fungicide			
Captan	41.00	42.08	Not Registered
CHLORDANE			
Acme Quality Paints, Inc.			
Acme 6% Chlordane Dust			
Chlordane	6.00	6.09	Passed
do	6.00	6.46	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
California Spray-Chemical Corp.			
(Now: California Chemical Company-Ortho Div.)			
Ortho Klor 10 Chlordane Dust			
Chlordane	10.00	10.43	Passed
do	10.00	10.64	Passed
do	10.00	9.50	Passed
Ortho Klor 44 Chlordane Spray			
Chlordane	44.00	43.99	Passed
do	44.00	43.91	Passed
do	44.00	43.75	Passed
The d-Con Company, Inc.			
d-Con Roach Prufe Special Formula RP-200			
Chlordane	2.00	2.04	Passed
Farmers Cooperative Exchange, Inc.			
FCX 10% Chlordane Dust			
Chlordane	10.00	9.29	Deficient
do	10.00	9.36	Deficient
do	10.00	10.78	Passed
do	10.00	9.93	Passed
FCX 50% Wettable Chlordane Powder			
Chlordane	50.00	46.40	Deficient
do	50.00	50.00	Passed
do	50.00	49.64	Passed
Graham Chemical Company			
Red Star Ant Dust			
Chlordane	6.00	6.64	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 40% Wettable Chlordane			
Chlordane	40.00	40.55	Passed
do	40.00	40.57	Passed
do	40.00	37.71	Deficient
The Parrott Chemical Company			
Lucky Strike 6% Chlordane			
Chlordane	6.00	6.26	Not Registered
B. G. Pratt Company			
Pratt's 6% Chlordane Dust			
Chlordane	6.00	7.20	Passed
do	6.00	6.99	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
O. M. Scott and Sons Company			
Cope			
Chlordane	8.00	7.82	Passed
do	8.00	7.88	Passed
Cope for Lawn Insects			
Chlordane	9.00	8.74	Passed
Sears, Roebuck and Company			
Cross Country Ant Killer			
Chlordane	10.00	10.36	Passed
do	10.00	10.22	Passed
Cross Country Lawn Spray Containing 45 %			
Chlordane	45.00	45.60	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 10 % Chlordane			
Chlordane	10.00	10.14	Passed
do	10.00	9.93	Passed
do	10.00	9.86	Passed
SA-50 Brand 40 % Wettable Spray Concentrate			
Chlordane	40.00	39.43	Passed
Taylor Chemical Company			
Superkill 45 % Chlordane Emulsifiable Concentrate			
Chlordane	45.00	44.39	Passed
Superkill 72 % Chlordane Emulsifiable Concentrate			
Chlordane	72.00	70.96	Passed
Union Carbide Consumer Products Company			
Division of Union Carbide Corp.			
Eveready Ant and Roach Killer			
Chlordane	10.00	10.74	Passed
United Cooperatives, Inc.			
(Registered by—Farmers Cooperative Exchange, Inc.)			
Unico 5 % Chlordane Granular			
Chlordane	5.00	5.04	Passed
Unico Chlordane Dust			
Chlordane	6.00	8.27	Passed
do	6.00	5.91	Passed
do	6.00	7.45	Passed
do	6.00	7.54	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Unico Termite Kill			
Chlordane	45.00	45.52	Passed
Unico Lawn Spray			
Chlordane	45.00	46.31	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 5% Chlordane Dust			
Chlordane	5.00	5.21	Passed
CHLORDANE-BHC-PIPERONYL BUTOXIDE- PYRETHRINS			
Lynwood Laboratories			
Shoo Fly Hornet Jet-Bomb			
Chlordane	2.00		Not Registered Deficient
Gamma isomer of BHC.....	1.00		
Piperonyl butoxide.....	0.062	0.080	
Pyrethrins	0.025	0.027	
Theoretical chlorine.....	2.11	1.49	
Sprayway, Inc.			
Sprayway Bee Wasp Hornet Jet Stream Killer			
Chlordane	2.00		Passed
Gamma isomer of BHC.....	1.00		
Piperonyl butoxide.....	0.062	0.060	
Pyrethrins	0.025	0.058	
Theoretical chlorine.....	2.11	2.07	
CHLORDANE-DDT-SULFUR			
Swift and Company			
Agricultural Chemical Division			
Swift's Gold Bear Chlordane-DDT-Sulfur Dust			
Chlordane	5.00		Deficient
DDT	5.00		
Sulfur	40.00	38.55	
Theoretical chlorine.....	5.70	5.35	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
CHLORDANE-DIAZINON-PIPERONYL BUTOXIDE-PYRETHRINS			
Hot Shot Quality Products, Inc.			
Hot Shot Diazinon Bug Killer			
Chlordane	1.00	1.05	Passed
Diazinon [O,O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate]	0.333		
N-octylbicycloheptene dicarboximide	0.15		
Piperonyl butoxide.....	0.09	0.10	
Pyrethrins	0.06	0.10	
Theoretical nitrogen.....	0.038	0.058	
Chlordane	1.00	1.15	Passed
Diazinon [O,O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate]	0.333		
N-octylbicycloheptene dicarboximide	0.15		
Piperonyl butoxide.....	0.09	0.09	
Pyrethrins	0.06	0.074	
Theoretical nitrogen.....	0.038	0.035	
Chlordane	1.00	1.11	Passed
Diazinon [O,O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate]	0.333		
N-octylbicycloheptene dicarboximide	0.15		
Piperonyl butoxide.....	0.09	0.10	
Pyrethrins	0.06	0.08	
Theoretical nitrogen.....	0.038	0.06	
Chlordane	1.00	1.17	Passed
Diazinon [O,O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate]	0.333		
N-octylbicycloheptene dicarboximide	0.15		
Piperonyl butoxide.....	0.09	0.081	
Pyrethrins	0.06	0.09	
Theoretical nitrogen.....	0.038	0.062	
Chlordane	1.00	1.07	Passed
Diazinon [O,O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate]	0.333		
N-octylbicycloheptene dicarboximide	0.15		
Piperonyl butoxide.....	0.09	0.084	
Pyrethrins	0.06	0.094	
Theoretical nitrogen.....	0.038	0.058	
Chlordane	1.00	0.99	Passed
Diazinon [O,O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl) phosphorothioate]	0.333		
N-octylbicycloheptene dicarboximide	0.15		
Piperonyl butoxide.....	0.09	0.086	
Pyrethrins	0.06	0.074	
Theoretical nitrogen.....	0.038	0.054	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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CHLORDANE-ORGANIC THIOCYANATES- PIPERONYL BUTOXIDE-PYRETHRINS

Rigo Manufacturing Company

Kill-Ko Quick Kill Insect Bomb

Chlordane	2.10	1.55	Deficient
Beta butoxy beta thiocyano diethyl ether	1.06	present	
Piperonyl butoxide.....	0.05	0.04	
Pyrethrins	0.02	0.04	

CHLORDANE-PIPERONYL BUTOXIDE- PYRETHRINS

Colgate-Palmolive Company

Kan-Kil Ant and Roach Killer

Chlordane	2.00	2.09	Passed
Piperonyl butoxide.....	0.092	0.103	
Pyrethrins	0.046	0.049	
Chlordane	2.00	1.91	Passed
Piperonyl butoxide.....	0.092	0.078	
Pyrethrins	0.046	0.060	

The Dill Company

D. K. Kills Roaches

Chlordane	2.00	2.05	Passed
Piperonyl butoxide.....	0.075	0.063	
Pyrethrins	0.015	0.038	
Chlordane	2.00	2.02	Passed
Piperonyl butoxide.....	0.075	0.060	
Pyrethrins	0.015	0.045	
Chlordane	2.00	2.06	Passed
Piperonyl butoxide.....	0.075	0.046	
Pyrethrins	0.015	0.020	

S. C. Johnson and Sons, Inc.

Raid Roach and Ant Killer

Chlordane	2.00	1.95	Passed
Piperonyl butoxide.....	0.090	0.073	
Pyrethrins	0.045	0.050	

Jones Products, Inc.

Jones Ant Killer

Chlordane	2.00	1.92	Not Registered
Piperonyl butoxide.....	0.115	0.11	
Pyrethrins	0.046	0.075	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Peele Company, Inc.			
Pelco Roach and Ant Spray			
Chlordane	2.00	2.18	Passed
Piperonyl butoxide.....	0.115	0.121	
Pyrethrins	0.046	0.073	
CHLORDANE-PIPERONYL CYCLONENE- PYRETHRINS			
Boyle-Midway, Inc.			
Black Flag Insecticide Powder			
Chlordane	1.50	2.23	Passed
Piperonyl cyclonene.....	0.35	present	
Pyrethrins	0.06	0.31	
CHLORDANE-PYRETHRINS			
Gulf Oil Corp.			
Gulf Ant-Roach Bomb			
Chlordane	2.00	2.06	Passed
Pyrethrins	0.08	0.079	
COPPER			
Carbola Chemical Company, Inc.			
CCC Copper Dust			
Copper as metallic.....	6.00	5.99	Passed
do	6.00	5.89	Passed
Farmers Cooperative Exchange, Inc.			
FCX 7% Copper Dust			
Copper as metallic.....	7.00	6.93	Passed
Mike, Inc.			
101 Brand Tomato Dust			
Copper as metallic.....	7.00	7.88	Passed
Miller Chemical and Fertilizer Corp.			
Miller Bor-Tox Copper Mixture Powdered			
Copper as metallic.....	12.75	13.06	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Tomato Dust			
Copper as metallic.....	7.00	7.14	Passed
do	7.00	7.42	Passed
do	7.00	7.10	Passed
2,4-D COMPOUNDS			
American Chemical Paint Company (Now: Amchem Products, Inc.)			
2.4 Weedust Weed Killer			
Ethyl ester of 2,4-D.....	2.00	3.75	Passed
do	2.00	3.70	Passed
Reasor Hill Corp.			
R. H. Weed Granular RHAP 20			
Iso-octyl (2 ethyl hexyl) ester of 2,4-D	30.12	33.36	Passed
O. M. Scott and Sons Company			
4-XD Weed Control			
Alkanolomine salts of ethanol and isopropyl series of 2,4-D.....	2.65	2.63	Passed
2,4-D equivalent	1.60		
Alkanolomine salts of ethanol and isopropyl series of 2,4-D.....	2.65	2.03	Passed
2,4-D equivalent	1.60		
Sears, Roebuck and Company			
Cross Country Weedeath			
Alkanolomine salts of ethanol and isopropyl series of 2,4-D.....	24.90	17.69	Passed
2,4-D equivalent	14.00		
Mixed isopropyl and triethyl amine salts of 2,4-D.....	18.94	17.05	Passed
2,4-D equivalent	14.00		
United Cooperatives, Inc. (Registered by—Farmers Cooperative Exchange, Inc.)			
Unico 2,4-D Amine Weed Killer			
Dimethylamine salts of 2,4-D.....	49.00	48.30	Passed
Unico Lawn Weed Killer			
Dimethylamine salts of 2,4-D.....	49.00	51.31	Passed
do	49.00	51.26	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
2,4-D AND 2,4,5-T COMPOUNDS			
Amchem Products, Inc.			
Weedone Brush Killer 32			
Butoxy ethanol ester of 2,4-D.....	22.60		Passed
Butoxy ethanol ester of 2,4,5-T.....	10.80		
Theoretical phenoxyacetic acid.....	15.38	17.12	
California Spray-Chemical Corp. (Now: California Chemical Company-Ortho Div.)			
Improved Weed B Gon			
Isooctyl ester of 2,4-D.....	15.10		Passed
Isooctyl ester of 2,4,5-T.....	7.20		
Theoretical phenoxyacetic acid.....	9.73	10.91	
DDD			
California Spray-Chemical Corp. (Now: California Chemical Company-Ortho Div.)			
Ortho TDE 2 Emulsive			
DDD	23.30	24.52	Passed
do	23.30	25.09	Passed
do	23.30	24.28	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 25 % TDE Rhothane Emulsion Concentrate			
DDD	25.00	25.12	Passed
do	25.00	25.86	Passed
do	25.00	23.97	Passed
do	25.00	25.49	Passed
do	25.00	26.10	Passed
Carolina Chemicals, Inc.			
Flight Brand Rhothane 2 lbs. (DDD) Emulsifiable			
DDD	23.30	20.88	Deficient
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand 25 % TDE Emulsion Tobacco Insect Killer			
DDD	25.00	25.25	Passed
Coastal Chemical Corp.			
TDE Emulsion			
DDD	24.00	25.38	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Daly-Herring Company			
Bacco 10% TDE Dust			
DDD	10.00	10.29	Passed
Bacco Spray Emulsifiable Concentrate			
DDD	23.76	25.05	Passed
do	23.76	24.40	Passed
do	23.76	25.34	Passed
do	23.76	26.99	Passed
do	23.76	25.53	Passed
Farmers Cooperative Exchange, Inc.			
FCX 10% TDE Dust			
DDD	10.00	9.86	Passed
FCX TDE Emulsifiable Concentrate			
DDD	23.90	25.33	Passed
do	23.90	25.79	Passed
do	23.90	23.74	Passed
Graham Chemical Company			
Graham's Red Star 10% Rhothane Dust			
DDD	10.00	9.00	Deficient
GurMiCo Chemicals, Inc.			
GurMiCo TDE 25 Emulsion			
DDD	25.00	25.90	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 10% TDE Dust			
DDD	10.00	9.00	Deficient
do	10.00	9.57	Passed
Maxwell 25% Rhothane Emulsion Concentrate			
DDD	25.00	24.42	Passed
do	25.00	24.76	Passed
do	25.00	25.06	Passed
do	25.00	25.54	Passed
Molony Fertilizer Company			
Lightning Brand TDE Emulsible Concentrate			
DDD	23.80	24.81	Passed
Niagara Chemical Division			
Food Machinery and Chemical Corp.			
Niagara DDD 25 Miscible			
DDD	25.00	26.15	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Olin Mathieson Chemical Corp.			
Mathieson 10% Rhothane (TDE) Dust			
DDD	10.00	8.43	Deficient
Mathieson TDE 25% Emulsifiable Concentrate			
DDD	25.00	27.06	Passed
do	25.00	26.09	Passed
do	25.00	24.64	Passed
do	25.00	25.84	Passed
do	25.00	26.97	Passed
do	25.00	23.75	Passed
W. R. Peele Company, Inc.			
Pelco Rhothane Tobacco Dust 10% TDE			
DDD	10.00	9.43	Deficient
do	10.00	9.50	Passed
Pelco Tobacco Spray Emulsifiable Concentrate			
DDD	23.75	23.92	Passed
do	23.75	23.78	Passed
do	23.75	23.96	Passed
Planters Chemical Corp.			
Planters TDE 2 lbs. Emulsion Concentrate			
DDD	23.80	22.16	Deficient
Southern Agricultural Chemicals, Inc.			
Royal Brand Rhothane Spray Concentrate			
DDD	23.80	24.98	Passed
Swift and Company Agricultural Chemical Division			
Swift's Gold Bear Insecticide Dust H 10-10% TDE			
DDD	10.00	8.93	Deficient
Planters Chemical Corp.			
Planters TDE 2 lbs. Emulsifiable Concentrate			
DDD	23.80	23.84	Passed
do	23.80	23.75	Passed
do	23.80	23.81	Passed
Taylor Chemical Company			
Superkill 24% TDE Emulsifiable Concentrate			
DDD	24.00	23.14	Passed
do	24.00	25.38	Passed
do	24.00	25.20	Passed
do	24.00	24.44	Passed
do	24.00	24.98	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DDD-DIELDRIN**Carter Insecticide and Chemical Company, Inc.**

Carolina Brand Carolina Tobacco Poison

DDD	25.00		Passed
Dieldrin	6.20		
Theoretical chlorine.....	14.53	13.81	
DDD	25.00		Passed
Dieldrin	6.20		
Theoretical chlorine.....	14.53	13.87	
DDD	25.00		Passed
Dieldrin	6.20		
Theoretical chlorine.....	14.53	14.63	

DDD-MANEB**Southern Agricultural Insecticides, Inc.**

SA-50 Brand Vineripe Tomato Dust

DDD	5.00	4.93	Passed
Manganese ethylene bisdithiocarbamate	5.00	5.99	

DDD-PARATHION**California Chemical Company-Ortho Div.**

Ortho Parthion-TDE 1-10 Dust

DDD	10.00	8.85	Deficient
Parathion	1.00	1.07	

W. R. Peele Company, Inc.

Pelco Tobacco Dust-10% TDE 1% Parathion

DDT	10.00	8.64	Deficient
Parathion	1.00	1.04	

DDT**Acme Quality Paints, Inc.**

Acme 5% DDT Dust

DDT	5.00	5.36	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Allied Chemical and Dye Corp.			
General Chemical Division			
Gentox S-50-50 % DDT Wettable Powder			
DDT	50.00	50.00	Passed
Boyle-Midway, Inc.			
Black Flag 25 % DDT Emulsion Concentrate			
DDT	25.00	24.96	Passed
do	25.00	25.53	Passed
California Chemical Company-Ortho Div.			
Ortho DDT 5 Dust			
DDT	5.00	4.50	Deficient
Ortho DDT 10 Dust			
DDT	10.00	9.29	Deficient
do	10.00	9.64	Passed
Ortho DDT 50 Wettable			
DDT	50.00	50.71	Passed
Ortho Pest-B-Gon 50 % DDT Wettable			
DDT	50.00	48.57	Passed
Ortho DDT 75 Micro Wettable			
DDT	75.00	76.05	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 5 % DDT Dust			
DDT	5.00	5.36	Passed
db	5.00	5.07	Passed
Tiger Brand 10 % DDT Dust			
DDT	10.00	10.36	Passed
do	10.00	10.22	Passed
Tiger Brand 25 % DDT Emulsion Concentrate			
DDT	25.00	24.24	Passed
do	25.00	25.43	Passed
Carbola Chemical Company			
CCC Powder Contains 10 % DDT			
DDT	10.00	11.07	Passed
do	10.00	8.93	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Carolina Chemical Corp. (Formerly: Quality Chemical Corp.)			
DDT 2 lbs. Emulsible Concentrate			
DDT	23.98	23.10	Not Registered
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand 25 % DDT Emulsion Concentrate			
DDT	25.00	25.82	Passed
Coastal Chemical Corp.			
DDT Emulsion			
DDT	25.00	24.86	Passed
Daly-Herring Company			
Dee Aitch 10 % DDT Dust			
DDT	10.00	10.36	Passed
do	10.00	8.64	Deficient
Dee Aitch 25 % DDT Emulsifiable Concentrate			
DDT	25.00	24.85	Passed
do	25.00	23.75	Passed
do	25.00	28.87	Passed
Dee Aitch 50 % DDT Wettable Powder			
DDT	50.00	49.28	Passed
do	50.00	48.56	Passed
do	50.00	50.71	Passed
Farmers Cooperative Exchange, Inc.			
FCX 5 % DDT Dust			
DDT	5.00	4.93	Passed
do	5.00	4.96	Passed
FCX 10 % DDT Dust			
DDT	10.00	9.53	Passed
FCX DDT Emulsion Concentrate			
DDT	24.00	23.53	Passed
do	24.00	23.87	Passed
do	24.00	24.55	Passed
FCX 50 % DDT Wettable Powder			
DDT	50.00	47.84	Passed
do	50.00	50.34	Passed
do	50.00	51.43	Passed
do	50.00	50.71	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Graham Chemical Company			
Graham's Red Star Agricultural 5% DDT Dust			
DDT	5.00	5.00	Passed
do	5.00	5.21	Passed
Bug-Death 25% DDT Concentrate			
DDT	25.00	23.96	Passed
GurMiCo Chemicals, Inc.			
GurMiCo 5% DDT Dust			
DDT	5.00	5.67	Misbranded
GurMiCo 10% DDT Dust			
DDT	10.00	9.64	Passed
GurMiCo 25% DDT Emulsion			
DDT	25.00	25.27	Passed
do	25.00	25.04	Passed
O. E. Linck Company, Inc.			
Tat Solution Concentrate 35% DDT			
DDT	35.00	35.37	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 10% DDT Dust			
DDT	10.00	9.57	Passed
do	10.00	9.72	Passed
Maxwell 25% DDT Emulsion Concentrate			
DDT	25.00	26.27	Passed
do	25.00	25.01	Passed
do	25.00	25.27	Passed
do	25.00	24.27	Passed
do	25.00	24.00	Passed
do	25.00	25.71	Passed
do	25.00	24.82	Passed
Miller Chemical and Fertilizer Corp.			
Miller 25% DDT Liquid			
DDT	25.00	24.99	Passed
Molony Fertilizer Company			
Lightning Brand 10% DDT Dust			
DDT	10.00	8.93	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Niagara Chemical Division			
Food Machinery and Chemical Corp.			
Niagara Niatox 5 Dust			
DDT	5.00	5.68	Passed
Olin Mathieson Chemical Corp.			
Mathieson DDT 10% Dust			
DDT	10.00	9.57	Passed
do	10.00	9.29	Deficient
do	10.00	9.75	Passed
Mathieson DDT 2 lbs. Emulsifiable Liquid			
DDT	25.00	25.46	Passed
do	25.00	24.49	Passed
W. R. Peele Company, Inc.			
Pelco 5% DDT Dust			
DDT	5.00	4.89	Passed
Pelco 10% DDT Dust			
DDT	10.00	10.43	Passed
do	10.00	9.57	Passed
Pelco DDT Emulsifiable Concentrate			
DDT	23.76	22.21	Deficient
do	23.76	22.85	Passed
do	23.76	22.56	Passed
do	23.76	25.44	Passed
do	23.76	23.61	Passed
Quality Chemical Corp.			
(Now: Carolina Chemical Corp.)			
DDT 2 lbs. Emulsible Concentrate			
DDT	23.98	20.76	Deficient Not Registered
DDT 50% Wettable Powder			
DDT	50.00	48.57	Passed
Ralston Purina Company			
Purina DDT Insecticide 75% DDT Wettable Powder			
DDT	75.00	76.82	Passed
do	75.00	75.05	Passed
Rigo Manufacturing Company, Inc.			
Kill-Ko Special 25% Concentrate			
DDT	25.00	24.52	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Smith Seed and Feed Company			
Old Belt Tobacco Flea Beetle Dust			
DDT	5.00	4.82	Passed
Southern Agricultural Chemicals, Inc.			
Royal Brand DDT Emulsion 25			
DDT	23.80	22.70	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 5% DDT Dust			
DDT	5.00	4.29	Deficient
do	5.00	4.60	Deficient
do	5.00	6.00	Passed
SA-50 Brand 10% DDT Dust			
DDT	10.00	10.00	Passed
do	10.00	9.93	Passed
do	10.00	10.65	Passed
do	10.00	9.86	Passed
do	10.00	10.57	Passed
do	10.00	9.71	Passed
do	10.00	10.22	Passed
do	10.00	9.29	Deficient
do	10.00	9.86	Passed
do	10.00	10.43	Passed
do	10.00	10.86	Passed
do	10.00	10.43	Passed
do	10.00	10.29	Passed
do	10.00	10.36	Passed
do	10.00	10.14	Passed
do	10.00	10.00	Passed
do	10.00	10.21	Passed
do	10.00	10.14	Passed
do	10.00	10.14	Passed
do	10.00	11.34	Passed
Taylor Chemical Company			
Superkill 10% DDT Dust			
DDT	10.00	10.72	Passed
Superkill 50% DDT Powder Wettable			
DDT	50.00	49.27	Passed
do	50.00	46.42	Deficient
United Cooperatives, Inc.			
(Registered by—Farmers Cooperative Exchange, Inc.)			
Unico DDT Emulsion Concentrate			
DDT	24.00	24.43	Passed
do	24.00	23.70	Passed
do	24.00	25.11	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Woolfolk Chemical Works, Ltd.			
Security Brand 25 % DDT Emulsifiable Liquid			
DDT	25.00	25.62	Passed
DDT-ALLETHRIN-ORGANIC THIOCYANATES			
Airosol Company, Inc.			
Jet Insect Killer Airosol			
DDT	2.00	2.50	Passed
Allethrin	0.10	present	
Beta butoxy beta thiocyno diethyl ether	1.00	present	
Colonial Stores, Inc.			
3D Insecticide Aerosol Spray			
DDT	2.00	2.14	Passed
Allethrin	0.10	present	
Beta butoxy beta thiocyno diethyl ether	1.00	present	
W. R. Peele Company, Inc.			
Pelco Aerosol Spruy Insecticide			
DDT	2.00	1.76	Deficient
Allethrin	0.10	present	
Beta butoxy beta thiocyno diethyl ether	1.00	present	
John C. Stalford and Sons, Inc. (Registered by—Stalford Pressure-Pak, Inc.)			
Pleezing Aerosol Insect Bomb			
DDT	2.00	2.33	Passed
Allethrin	0.125	present	
Beta butoxy beta thiocyno diethyl ether	1.00	present	
DDT	2.00	2.00	Passed
Allethrin.....	0.125	present	
Beta butoxy beta thiocyno diethyl ether	1.00	present	
DDT-ALLETHRIN-PIPERONYL BUTOXIDE-THANITE			
The Dill Company, Inc.			
Drop Dead Bug Killer			
DDT	2.00	1.71	Deficient
Allethrin	0.10	present	
Piperonyl butoxide.....	0.25	0.22	
Thanite	1.00	present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DDT-ARAMITE-PIPERONYL CYCLONENE- ROTENONE

Sears, Roebuck and Company

Cross Country Spray for Evergreens

DDT	10.00		Passed
Aramite	2.00		
Piperonyl cyclonene.....	1.30	present	
Rotenone	0.65	present	
Theoretical chlorine.....	5.21	5.50	
DDT	10.00		Passed
Aramite	2.00		
Piperonyl cyclonene.....	1.30	present	
Rotenone	0.65	present	
Theoretical chlorine.....	5.21	5.36	

DDT-CAPTAN-KARATHANE-MALATHION

Swift and Company

Agricultural Chemical Division

End-O-Pest Rose Dust

DDT	5.00		Deficient
Captan.....	7.50		
Karathane	1.00		
Malathion	4.50	3.46	
Theoretical chlorine.....	5.15	5.43	
Theoretical nitrogen.....	0.40	0.44	
DDT	5.00		Deficient
Captan.....	7.50		
Karathane	1.00		
Malathion	4.50	2.31	
Theoretical chlorine.....	5.15	5.14	
Theoretical nitrogen.....	0.40	0.46	

DDT-CHLORANIL

Science Products Company, Inc.

Spergon Gladiolus and Bulb Dust

DDT	3.00		Not
Chloronil	50.00		Registered
Theoretical chlorine.....	30.34	7.54	Deficient

DDT-CAPTAN-MALATHION

Acme Quality Paints, Inc.

Acme Rose Dust

DDT	5.00		Deficient
Captan	7.00		
Malathion	4.00	3.25	
Theoretical chlorine.....	4.98	5.36	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Acme Rost Dust (Continued)			
DDT	5.00		Deficient
Captan	7.00		
Malathion	4.00	3.66	
Theoretical chlorine.....	4.98	5.17	

DDT-COPPER**California Chemical Company-Ortho Div.**

Ortho DDT-Copper 5-7 Dust			
DDT	5.00	4.86	Passed
Copper as metallic.....	7.00	6.79	

Farmers Coopertive Exchange, Inc.

FCX 7-5 Potato and Tomato Dust			
DDT	5.00	4.86	Passed
Copper as metallic.....	7.00	6.79	

Mike, Inc.

101 Brand Potato Dust with 5% DDT			
DDT	5.00	5.00	Passed
Copper as metallic.....	6.50	6.70	

Southern Agricultural Insecticides, Inc.

SA-50 Brand Potato Dust with 5% DDT			
DDT	5.00	5.00	Passed
Copper as metallic.....	6.50	6.56	
DDT	5.00	4.79	Passed
Copper as metallic.....	6.50	6.58	

Taylor Chemical Company

Superkill Tomato Dust No. 10			
DDT	10.00	10.14	Passed
Copper as metallic.....	6.00	5.79	

DDT-DDD-PARATHION**Cape Fear Chemicals, Inc.**

Tiger Brand Thripple Quick 1-5-5 Tobacco Dust			
DDT	5.00		Passed
DDD	5.00		
Parathion.....	1.00	1.01	
Theoretical chlorine.....	4.72	4.86	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Peele Company, Inc.			
Pelco 5-5-1 Tobacco Dust			
DDT	5.00		Passed
DDD	5.00		
Parathion.....	1.00	1.05	
Theoretical chlorine.....	4.72	4.57	
DDT	5.00		Passed
DDD	5.00		
Parathion.....	1.00	1.11	
Theoretical chlorine.....	4.72	4.83	
DDT-ENDRIN			
Acme Fertilizer Company			
Acme Endrin DDT Emulsion			
DDT	11.75		Passed
Endrin	11.75		
Theoretical chlorine.....	12.44	12.07	
DDT	11.75		Passed
Endrin	11.75		
Theoretical chlorine.....	12.44	12.47	
California Chemical Company-Ortho Div.			
Ortho Endrin DDT 1-1 Emulsive			
DDT	12.20		Passed
Endrin	12.20		
Theoretical chlorine.....	12.91	13.58	
DDT	12.20		Passed
Endrin	12.20		
Theoretical chlorine.....	12.91	13.52	
DDT	12.20		Passed
Endrin	12.20		
Theoretical chlorine.....	12.91	13.55	
DDT	12.20		Passed
Endrin	12.20		
Theoretical chlorine.....	12.91	13.17	
DDT	12.20		Passed
Endrin	12.20		
Theoretical chlorine.....	12.91	13.06	
Cape Fear Chemicals, Inc.			
Tiger Brand Tobacco Spray			
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	11.97	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Tiger Brand Tobacco Spray (Continued)			
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	12.51	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	12.40	
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand En-D Tobacco Dust			
DDT	5.00		Passed
Endrin	1.00		
Theoretical chlorine.....	3.06	3.03	
Carolina Brand En-D Tobacco Poison			
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	11.82	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	12.22	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	11.95	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	12.24	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	12.20	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	12.09	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	11.94	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	11.82	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	12.22	

Coastal Chemical Corp.

Worm and Beetle Spray

DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	12.40	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Worm and Beetle Spray (Continued)			
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	12.12	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	12.22	
Daly-Herring Company			
Bacco Beetle Spray Emulsifiable Concentrate			
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	11.72	
GurMiCo Chemicals, Inc.			
0.6 lbs. Endrin 1.4 lbs. DDT Liquid Tobacco Control			
DDT	11.20		Excessive Active Ingredients
Endrin	4.25		
Theoretical chlorine.....	7.97	12.91	
Liquid Tobacco Control			
DDT	16.50		Not Registered
Endrin	6.50		
Theoretical chlorine.....	11.88	12.19	
DDT	16.50		Not Registered
Endrin	6.50		
Theoretical chlorine.....	11.88	12.26	
2 Way Liquid Insect Control for Tobacco and Cotton			
DDT	19.00		Not Registered
Endrin	12.00		
Theoretical chlorine.....	16.20	18.09	
Maxwell Insecticide Company, Inc.			
Maxwell Tobacco Spray No. 2 Emulsifiable Concentrate			
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	12.28	
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	12.43	
W. R. Peele Company, Inc.			
Pelco Endrin and DDT Emulsion			
DDT	11.99		Passed
Endrin	12.20		
Theoretical chlorine.....	12.76	12.16	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Pelco Endrin and DDT Emulsion (Continued)			
DDT	11.99		Passed
Endrin	12.20		
Theoretical chlorine.....	12.76	12.35	
DDT	11.99		Passed
Endrin	12.20		
Theoretical chlorine.....	12.76	12.22	
DDT	11.99		Passed
Endrin	12.20		
Theoretical chlorine.....	12.76	12.40	
Quality Chemical Corp. (Now: Carolina Chemical Corp.)			
Tobacco Special			
DDT	16.50		Passed
Endrin	6.50		
Theoretical chlorine.....	11.88	11.50	
Southern Agricultural Chemicals, Inc.			
Royal Brand Worm, Weevil, Beetle Emulsible Concentrate			
DDT	12.20		Passed
Endrin	11.90		
Theoretical chlorine.....	12.75	12.62	
United Cooperatives, Inc. (Registered by—Farmers Cooperative Exchange, Inc.)			
Unico "513" Tobacco and Cotton Spray			
DDT	15.80		Passed
Endrin	6.40		
Theoretical chlorine.....	11.47	11.86	
DDT	15.80		Passed
Endrin	6.40		
Theoretical chlorine.....	11.47	12.22	
DDT	15.80		Passed
Endrin	6.40		
Theoretical chlorine.....	11.47	11.68	
DDT-FERBAM			
California Chemical Company-Ortho Div.			
Ortho Ferbam-DDT 11.4-5 Dust			
DDT	5.00	2.64	Deficient
Ferric dimethyl dithiocarbamate.....	11.40	10.59	
Carter Insecticide and Chemical Company, Inc.			
Ferbam Dust with 3% DDT			
DDT	3.00	2.97	Passed
Ferric dimethyl dithiocarbamate.....	11.40	11.70	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DDT-FERBAM-MALATHION-PYRETHRINS-SULFUR

O. M. Scott and Sons Company

Scott's Haze Rose Dust

DDT	5.00	5.43	Deficient
Ferric dimethyl dithiocarbamate.....	7.50	4.41	
Malathion	4.50	1.90	
Pyrethrins	0.02	0.014	
Sulfur	28.00	20.03	

DDT-FERBAM-ROTENONE-SULFUR-ZIRAM

United Cooperatives, Inc.

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico Rose and Floral Spray Powder

DDT	5.00	5.86	Passed
Ferris dimethyl dithiocarbamate.....	3.80		
Rotenone.....	1.00	present	
Sulfur	30.00	29.98	
Zinc dimethyldithiocarbamate.....	3.50		
Theoretical carbon disulfide.....	3.82	3.70	

DDT-METHYL PARATHION

California Chemical Company-Ortho Div.

Ortho Methyl Parathion-DDT 2.5-7 Dust

DDT	7.00	6.80	Deficient
Methyl parathion.....	2.50	2.24	

Ortho Methyl Parathion-DDT 2.5-10 Dust

DDT	10.00	9.50	Passed
Methyl parathion.....	2.50	2.71	
DDT	10.00	12.12	Passed
Methyl parathion.....	2.50	3.09	

Olin Mathieson Chemical Corp.

Mathieson Methyl Parathion 2.5 %-DDT 10 % Cotton Dust

DDT	10.00	10.57	Deficient
Methyl parathion.....	2.50	2.24	

Taylor Chemical Company

Superskill 2½ P-5 Dust

DDT	5.00	9.46	Excessive Active Ingredient
Methyl parathion.....	2.50	2.49	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Superkill 2½ P-10 Dust			
DDT	10.00	11.14	Passed
Methyl parathion.....	2.50	2.77	
DDT	10.00	11.29	Passed
Methyl parathion.....	2.50	3.07	

Woolfolk Chemical Works, Ltd.

Security Brand Cotton Dust

DDT	5.00	4.89	Passed
Methyl parathion.....	2.50	2.88	

Security Brand 2½ % Methyl Parathion 10 %
DDT Cotton Dust

DDT	10.00	9.93	Passed
Methyl parathion.....	2.50	2.67	
DDT	10.00	10.29	Passed
Methyl parathion.....	2.50	2.48	

DDT-METHYL TRITHION**Woolfolk Chemical Works, Ltd.**

Security Brand Tri-Me 2½-7

DDT	7.00		Passed
Methyl trithion.....	2.50	2.38	
Theoretical chlorine.....	3.76	4.05	

DDT-MALATHION-PYRETHRINS**O. M. Scott and Sons Company**

Scott's Mosquito and Fly Control Boon

DDT	5.00	5.71	Passed
Malathion	4.50	4.35	
Pyrethrins	0.10	0.14	
DDT	5.00	5.25	Passed
Malathion	4.50	4.37	
Pyrethrins	0.10	0.09	
DDT	5.00	5.07	Passed
Malathion	4.50	4.75	
Pyrethrins	0.10	0.11	
DDT	5.00	5.00	Passed
Malathion	4.50	4.63	
Pyrethrins	0.10	0.28	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DDT-MANE6			
Mike, Inc.			
101 Brand Maneb and DDT Spray			
DDT	25.00	24.29	Deficient
Manganese ethylene bisdithiocarba- mate	40.00	34.97	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Manzate Dust with DDT			
DDT	5.00	5.14	Passed
Manganese ethylene bisdithiocarba- mate	5.00	4.99	
DDT-PARATHION-SULFUR			
Atlas Agricultural Chemicals, Inc.			
Atlas Parathion-DDT-Sulfur 1.5-5-25 Bean Dust			
DDT	5.00	5.50	Passed
Parathion.....	1.50	1.43	
Sulfur	25.00	25.14	
DDT	5.00	5.39	Passed
Parathion.....	1.50	1.43	
Sulfur	25.00	25.24	
W. R. Grace and Company Davison Chemical Division			
Naco Customers Special Mixture			
DDT	5.00	5.21	Passed
Parathion.....	1.50	1.77	
Sulfur	30.00	29.91	
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 1½ % Parathion Dust with DDT			
DDT	5.00	5.21	Passed
Parathion.....	1.50	1.62	
Sulfur	25.00	27.58	
DDT	5.00	5.43	Deficient
Parathion.....	1.50	1.99	
Sulfur	25.00	23.12	
DDT	5.00	5.14	Passed
Parathion.....	1.50	1.99	
Sulfur	25.00	27.63	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SA-50 Brand 1½ % Parathion Dust with DDT (Continued)			
DDT	5.00	5.21	Passed
Parathion.....	1.50	1.49	
Sulfur	25.00	24.78	
DDT	5.00	5.64	Deficient
Parathion.....	1.50	1.91	
Sulfur	25.00	23.51	
DDT	5.00	6.00	Deficient
Parathion.....	1.50	1.69	
Sulfur	25.00	22.90	
DDT	5.00	5.61	Deficient
Parathion.....	1.50	1.57	
Sulfur	25.00	23.68	
DDT	5.00	5.18	Deficient
Parathion.....	1.50	2.00	
Sulfur	25.00	22.70	
DDT	5.00	5.50	Passed
Parathion.....	1.50	1.82	
Sulfur	25.00	26.75	
DDT	5.00	5.43	Passed
Parathion.....	1.50	1.96	
Sulfur	25.00	24.11	
DDT	5.00	5.11	Passed
Parathion.....	1.50	2.01	
Sulfur	25.00	27.49	

SA-50 Brand 1½ % Parathion Dust with 5 % DDT-
70 % Sulfur

DDT	5.00	5.61	Deficient
Parathion.....	1.50	1.85	
Sulfur	70.00	64.71	

DDT-PIPERONYL BUTOXIDE-PYRETHRINS

A—Penn Oil Company

Kilzum New Improved 2 in 1 Insect Spray

DDT	5.00	5.28	Passed
Piperonyl butoxide.....	0.052	0.063	
Pyrethrins	0.021	0.034	
DDT	5.00	5.22	Passed
Piperonyl butoxide.....	0.052	0.08	
Pyrethrins	0.021	0.036	
DDT	5.00	5.08	Deficient
Piperonyl butoxide.....	0.052	0.06	
Pyrethrins	0.21	0.081	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Humble Oil and Refining Company			
Flit Aerosol Fly and Mosquito Killer			
DDT	2.00	2.20	Passed
Piperonyl butoxide.....	0.80	0.78	
Pyrethrins	0.10	0.099	

United Cooperatives, Inc.

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico Insect Spray

DDT	0.25	0.32	Passed
Piperonyl butoxide.....	0.30	0.30	
Pyrethrins	0.035	0.052	
DDT	0.25	0.41	Passed
Piperonyl butoxide.....	0.30	0.30	
Pyrethrins	0.035	0.041	

DDT-ORGANIC THIOCYANATES**Boyle-Midway, Inc.****Black Flag Insect Spray**

DDT	5.00	5.44	Passed
Beta butoxy beta thiocyno diethyl ether	1.00	present	
DDT	5.00	5.29	Passed
Beta butoxy beta thiocyno diethyl ether	1.00	present	

DDT-ORGANIC THIOCYANATES-SULFUR**Dr. Salsbury's Laboratories****Salsbury's Louse Powder**

DDT	2.00	2.00	Passed
Beta butoxy beta thiocyno diethyl ether	2.10	2.36	
Sulfur.....	30.00	29.44	

DDT-ZINEB**Farmers Cooperative Exchange, Inc.****FCX 6.5% Zineb-5% DDT Dust**

DDT	5.00	4.71	Deficient
Zinc ethylene bisdithiocarbamate....	6.50	6.37	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
DDVP			
The Farnam Company			
Farnam Die-Fly 3-Way "Sugar Base Fly Killer"			
DDVP (O,O-dimethyl 2,2-dichloro- vinyl phosphate)	0.50	0.55	Passed
Fly-Cord, Inc.			
New Flyco Fly Bait Wet or Dry			
DDVP (O,O-dimethyl 2,2-dichloro- vinyl phosphate)	0.50	1.51	Excessive Active Ingredient
DIELDRIN			
California Spray-Chemical Corp.			
(Now: California Chemical Company-Ortho Div.)			
Ortho Dieldrin 2.5 Granular			
Dieldrin.....	2.50	2.76	Passed
Ortho Dieldrin Spray			
Dieldrin.....	18.60	19.70	Passed
W. R. Peele Company, Inc.			
Pelco Dieldrin Emulsifiable Concentrate			
Dieldrin.....	18.60	17.04	Deficient
Real Kill Products			
Division of Cook Chemical Company			
Real-Kill Moth Proofer Bomb			
Dieldrin.....	0.50	0.52	Passed
do	0.50	0.56	Passed
Rigo Manufacturing Company, Inc.			
Kill-Ko Dieldrin Emulsifiable Concentrate			
Dieldrin.....	18.70	20.13	Not Registered
Rose Manufacturing Company			
(Registered by—Nott Manufacturing Company, Inc.)			
Tri-Ogen Dieldrin Spray			
Dieldrin.....	18.60	19.69	Not Registered

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Science Products Company			
Science Dieldrin Insecticide for Lawns			
Dieldrin.....	18.60	19.14	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Lawn Diel 2½ % Dieldrin Granules			
Dieldrin.....	2.50	3.15	Passed
SA-50 Brand 10% Dieldrin Granules			
Dieldrin.....	10.00	11.35	Passed
United Cooperatives, Inc.			
(Registered by—Farmers Cooperative Exchange, Inc.)			
Unico Dieldrin Granules			
Dieldrin.....	5.00	5.11	Passed
do	5.00	5.10	Passed

DIELDRIN-BHC-PYRETHRINS
Penola Oil Company
 (Now: Humble Oil and Refining Company)

Flit Roach and Ant Killer

Dieldrin.....	0.45		Passed
Gamma isomer of BHC.....	0.05		
Pyrethrins	0.05	0.04	
Theoretical chlorine.....	0.29	0.39	
Dieldrin.....	0.45		Passed
Gamma isomer of BHC.....	0.05		
Pyrethrins	0.05	0.058	
Theoretical chlorine.....	0.29	0.32	
Dieldrin.....	0.45		Passed
Gamma isomer of BHC.....	0.05		
Pyrethrins	0.05	0.06	
Theoretical chlorine.....	0.29	0.42	

DIELDRIN-COPPER OXALATE-FERRIC OXIDE**Borderland Products, Inc.**

Red Shield Double Protection

Dieldrin	5.00	4.82	Passed
Copper oxalate.....	4.00	4.33	
Ferric oxide.....	33.92	32.74	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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DIELDRIN-DIAZINON-PYRETHRINS**Real-Kill Products
Division of Cook Chemical Company****Real-Kill Bug Killer**

Dieldrin	0.300	0.38	Passed
Diazinon [O, O-diethyl O-(isopropyl- 4-methyl-6-pyrimidinyl) phospho- rothioate]	0.200	0.69	
Pyrethrins	0.046	0.058	
Dieldrin	0.300	0.36	Passed
Diazinon [O, O-diethyl O-(isopropyl- 4-methyl-6-pyrimidinyl) phospho- rothioate]	0.200	0.19	
Pyrethrins	0.046	0.07	

DIELDRIN-METALDEHYDE**Colonial Products, Inc.****Colonial New Formula Slug-ets-Pelleted**

Dieldrin	1.00	1.20	Passed
Metaldehyde	2.75	3.81	

DIELDRIN-PYRETHRINS**Real-Kill Products
Division of Cook Chemical Company****Push Button Real-Kill Bug Killer**

Dieldrin	0.50	0.51	Passed
Pyrethrins	0.046	0.049	

ENDRIN**Acme Fertilizer Company****Acme 2% Endrin Dust**

Endrin	2.00	2.03	Passed
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Atlas Agricultural Chemicals, Inc.**Atlas 1.6 Endrin Emulsion Concentrate**

Endrin	19.50	18.89	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
California Chemical Company-Ortho Div.			
Ortho Endrin 1.6 Emulsible			
Endrin	18.60	20.99	Passed
do	18.60	19.18	Passed
do	18.60	19.20	Passed
do	18.60	20.17	Passed
do	18.60	20.67	Passed
do	18.60	19.63	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand Endrin Emulsifiable Concentrate			
Endrin	19.50	22.27	Passed
do	19.50	19.58	Passed
do	19.50	18.83	Passed
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand Endrin Emulsifiable Concentrate			
Endrin	19.50	20.43	Passed
do	19.50	19.26	Passed
do	19.50	18.94	Passed
do	19.50	19.50	Passed
do	19.50	19.58	Passed
do	19.50	14.81	Deficient
Coastal Chemical Corp.			
Endrin Emulsible Concentrate			
Endrin	19.50	19.88	Passed
do	19.50	19.51	Passed
Daly-Herring Company			
Dee Aitch Endrin Emulsifiable Concentrate			
Endrin	19.50	19.66	Passed
do	19.50	19.36	Passed
do	19.50	20.96	Passed
do	19.50	21.95	Passed
do	19.50	20.33	Passed
do	19.50	19.64	Passed
do	19.50	19.47	Passed
Farmers Cooperative Exchange, Inc.			
FCX Endrin Emulsifiable Concentrate			
Endrin	18.90	19.56	Passed
do	18.90	18.99	Passed
do	18.90	20.18	Passed
do	18.90	20.38	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
GurMiCo Chemicals, Inc.			
GurMiCo Endrin 1½ % Dust			
Endrin	1.50	1.80	Passed
GurMiCo Endrin Emulsion			
Endrin	18.50	20.96	Passed
Olin Mathieson Chemical Corp.			
Mathieson's Endrin 1.6 Emulsifiable Concentrate			
Endrin	19.80	21.22	Passed
do	19.80	24.60	Passed
do	19.80	19.90	Passed
do	19.80	19.05	Passed
Maxwell Insecticide Company, Inc.			
Maxwell Endrin Emulsifiable Concentrate			
Endrin	19.50	20.70	Passed
Molony Fertilizer Company			
Lightning Brand Endrin Emulsible Concentrate			
Endrin	19.50	20.15	Passed
Niagara Chemical Division Food Machinery and Chemical Corp.			
Endrin Emulsifiable			
Endrin	18.50	19.32	Passed
W. R. Peele Company, Inc.			
Pelco 1½ % Endrin Dust			
Endrin	1.50	1.73	Passed
do	1.50	1.60	Passed
Pelco Endrin Emulsifiable Concentrate			
Endrin	19.50	18.91	Passed
do	19.50	18.72	Passed
do	19.50	18.54	Passed
do	19.50	18.51	Deficient
Planters Chemical Corp.			
Planters 1½ % Endrin Dust			
Endrin	1.50	1.60	Passed
Planters 2 % Endrin Dust			
Endrin	2.00	2.23	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Planters Endrin Emulsible Concentrate			
Endrin	19.50	18.67	Passed
do	19.50	19.18	Passed
do	19.50	19.66	Passed
do	19.50	19.33	Passed
do	19.50	19.65	Passed
do	19.50	18.84	Passed

Quality Chemical Corp.
(Now: Carolina Chemical Corp.)

Endrin Emulsible Concentrate

Endrin	19.50	18.72	Passed
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Taylor Chemical Company

Superkill 2% Endrin Dust

Endrin	2.00	2.18	Passed
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Superkill Endrin Emulsifiable Concentrate

Endrin	19.50	20.74	Passed
do	19.50	21.06	Passed
do	19.50	19.78	Passed

ENDRIN-PARATHION

Southern Agricultural Insecticides, Inc.

SA-50 Brand Dust Containing 1½ % Endrin 1 % Parathion

Endrin	1.50	1.87	Passed
Parathion.....	1.00	1.12	

ENDRIN-TRITHION

Swift and Company
Agricultural Chemical Division

Swift's Gold Bear Super Guard 152

Endrin	1.50	1.18	Passed
Trithion.....	2.00		
Theoretical chlorine.....	1.04		

FERBAM

California Chemical Company-Ortho Div.

Ortho Ferbam 11.4 Dust

Ferric dimethyl dithiocarbamate.....	11.40	10.17	Deficient
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Daly-Herring Company			
Dee Aitch 15% Fermate Dust			
Ferric dimethyl dithiocarbamate.....	11.40	11.17	Passed
Farmers Cooperative Exchange, Inc.			
FCX Ferbam No. 10 Dust			
Ferric dimethyl dithiocarbamate.....	11.40	11.25	Passed
Graham Chemical Company			
Graham's Red Star "Ferbam" Dust			
Ferric dimethyl dithiocarbamate.....	11.40	11.38	Passed
Olin Mathieson Chemical Corp.			
Mathieson Ferbam Dust			
Ferric dimethyl dithiocarbamate.....	11.40	12.99	Passed
W. R. Peele Company, Inc.			
Pelco 15% Fermate Dust			
Ferric dimethyl dithiacarbamate.....	11.40	11.38	Passed
Taylor Chemical Company			
Superkill 11.4% Ferbam Dust			
Ferric dimethyl dithiacarbamate.....	11.40	10.78	Deficient
FERBAM-DDT			
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand Ferbam-DDT Dust			
Ferric dimethyl dithiacarbamate.....	11.40	11.49	Passed
DDT	3.00	3.07	
Daly-Herring Company			
Dee Aitch 15% Fermate 3% DDT Dust			
Ferric dimethyl dithiacarbamate.....	11.40	11.32	Passed
DDT	3.00	2.93	
Farmers Cooperative Exchange, Inc.			
FCX 15% Fermate-5% DDT Dust			
Ferric dimethyl dithiacarbamate.....	11.40	11.12	Passed
DDT	5.00	5.18	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Olin Mathieson Chemical Corps.			
Mathieson Ferbam-DDT Dust			
Ferric dimethyl dithiocarbamate.....	11.40	11.48	Passed
DDT	3.00	3.00	
W. R. Peele Company, Inc.			
Pelco 15% Fermate-3% DDT Dust			
Ferric dimethyl dithiocarbamate.....	11.40	12.40	Passed
DDT	3.00	3.27	
FERBAM-DDT-LEAD ARSENATE			
Sears, Roebuck and Company			
Cross Country Fruit Spray			
Ferric dimethyl dithiocarbamate....	15.20	14.67	Passed
DDT	5.00	5.07	
Lead arsenate.....	28.50		
Arsenic as metallic.....	6.15	8.08	
FERBAM-DDT-MALATHION-PYRETHRINS-SULFUR			
O. M. Scott and Sons Company			
Scott's Haze-Success with Roses			
Ferric dimethyl dithiocarbamate.....	7.50	6.13	Deficient
DDT	5.00	5.07	
Malathion	4.50	2.91	
Pyrethrins	0.02	0.42	
Sulfur.....	28.00	26.46	
FERBAM-DDT-SULFUR			
Farmers Cooperative Exchange, Inc.			
FCX Rose Dust			
Ferric dimethyl dithiocarbamate.....	7.60	7.02	Deficient
DDT	5.00	5.96	
Sulfur.....	75.00	74.38	
Ferric dimethyl dithiocarbamate.....	7.60	6.72	Deficient
DDT	5.00	4.79	
Sulfur.....	75.00	73.41	
Ferric dimethyl dithiocarbamate.....	7.60	7.07	Deficient
DDT	5.00	5.71	
Sulfur.....	75.00	67.78	
Ferric dimethyl dithiocarbamate.....	7.60	6.88	Deficient
DDT	5.00	5.00	
Sulfur.....	75.00	74.12	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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FERBAM-DICHLONE-SULFUR**Atlas Agricultural Chemicals, Inc.**

Atlas Apple Spray S.F.D.

Ferric dimethyl dithiocarbamate.....	9.50	8.55	Deficient
Dichlone (2,3-Dichloro-1,4 naphthoquinone)	3.00	2.53	
Sulfur	71.00	74.30	

Corona Chemical Division**Pittsburgh Plate Glass Company**

Corona Phybam-S Cm-187

Ferric dimethyl dithiocarbamate.....	9.50	8.62	Deficient
Dichlone (2,3-Dichloro-1,4 naphthoquinone)	3.00	3.00	
Sulfur	71.00	70.30	
Ferric dimethyl dithiocarbamate.....	9.50	8.72	Deficient
Dichlone (2,3-Dichloro-1,4 naphthoquinone)	3.00	3.07	
Sulfur	71.00	72.59	

Niagara Chemical Division**Food Machinery and Chemical Corp.**

Niagara Kolo Ferbam Phygono Spray

Ferric dimethyl dithiocarbamate.....	9.50	9.66	Passed
Dichlone (2,3-Dichloro-1,4 naphthoquinone)	3.00	2.85	
Sulfur	67.60	68.26	

**FLUORINE COMPOUNDS
SODIUM FLUORIDE****Ralston Purina Company**

Purina Lice Powder

Sodium fluoride.....	35.00	39.10	Passed
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**SODIUM FLUORIDE-PIPERONYL
BUTOXIDE-PYRETHRINS****Rigo Manufacturing Company**

Kill-Ko Roach Powder

Sodium fluoride.....	58.00	62.52	Passed
Piperonyl butoxide.....	1.50	1.54	
Pyrethrins	0.15	0.26	
Sodium fluoride.....	58.00	62.65	Passed
Piperonyl butoxide.....	1.50	1.71	
Pyrethrins	0.15	0.17	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Kill-?Ko Roach Powder (Continued)

Sodium fluoride.....	58.00	59.66	Passed
Piperonyl butoxide.....	1.50	1.80	
Pyrethrins	0.15	0.16	
Sodium fluoride.....	58.00	58.40	Passed
Piperonyl butoxide.....	1.50	1.28	
Pyrethrins	0.15	0.16	

**SODIUM FLUORIDE-SODIUM
FLUOSILICATE-PYRETHRINS****Pearson and Company**

Pearson's Roach Poison

Sodium fluoride.....	59.00		Passed
Sodium fluosilicate.....	1.00		
Pyrethrins	0.18	0.196	
Theoretical fluorine.....	27.30	27.07	

SODIUM FLUOSILICATE-CHLORDANE**Shepards Chemical Works**

Shepard's Roach Killer

Sodium fluosilicate.....	58.00	78.47	Excessive Active Ingredient Deficient
Chlordane	2.00	0.80	

**SODIUM FLUOSILICATE-ORGANIC
THIOCYANATES-ROTENONE-SULFUR****Carbola Chemical Company, Inc.**

Carbola Flea and Louse Killer

Sodium fluosilicate.....	10.00	10.94	Passed
Beta thiocyno ethyl esters of ali- phatic fatty acids—10 to 18 car- bon atoms.....	0.75	present	
Rotenone.....	0.40	present	
Sulfur	15.00	15.85	

SODIUM FLUOSILICATE-ROTENONE-SULFUR**Carbola Chemical Company, Inc.**

Carbola Flea and Louse Killer

Sodium fluosilicate.....	10.00	9.50	Deficient
Rotenone.....	0.50	0.15	
Sulfur	15.00	14.53	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
FUMARIN			
Rigo Manufacturing Company			
Kill-Ko Rat Bait			
Fumarin.....	0.025	0.026	Passed
Sanitation Products Company, Inc.			
Bait-Tox Ready-Mixed Rat Bait			
Fumarin.....	0.025	0.059	Passed
HEPTACHLOR			
Atlas Agricultural Chemicals, Inc.			
Atlas 2.5 % Heptachlor Granules			
Heptachlor (Technical).....	3.47	3.85	Passed
California Chemical Company-Ortho Div.			
Ortho Heptachlor 2.5 Granular			
Heptachlor (Technical).....	3.47	3.33	Not Registered
California Spray-Chemical Corp. (Now: California Chemical Company-Ortho Div.)			
Ortho Heptachlor 2 Emulsive			
Heptachlor (Technical).....	31.20	31.40	Passed
Farmers Cooperative Exchange, Inc.			
Unico 2½ % Heptachlor Granular			
Heptachlor (Technical).....	3.47	3.15	Deficient
do	3.47	4.33	Passed
do	3.47	3.85	Passed
W. R. Grace and Company Davison Chemical Division			
Naco 2½ % Heptachlor Granules			
Heptachlor (Technical).....	3.47	3.59	Passed
Olin Mathieson Chemical Corp.			
Mathieson Heptachlor 2½ % Granular			
Heptachlor (Technical).....	3.47	3.77	Passed
do	3.47	4.07	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 2½ % Heptachlor Granules			
Heptachlor (Technical).....	3.47	3.89	Passed
do	3.47	3.78	Passed
do	3.47	4.00	Passed
do	3.47	3.96	Passed
do	3.47	3.92	Passed
do	3.47	4.02	Passed
do	3.47	3.92	Passed

Swift and Company
Agricultural Chemical Division

Swift's Gold Bear Granules A 2.5 G

Heptachlor (Technical).....	3.47	3.48	Passed
do	3.47	4.07	Passed

Swift's Gold Bear Heptachlor A-3-E

Heptachlor (Technical).....	30.90	31.00	Passed
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United Cooperatives, Inc.

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico 2½ % Heptachlor Granular

Heptachlor (Technical).....	3.47	4.44	Passed
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Unico Heptachlor Transplanter Solution

Heptachlor (Technical).....	32.30	32.33	Passed
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KORLAN

The Dow Chemical Company

Dow Korlan 12E (For Efficient Fly Control)

Korlan (O, O-dimethyl O-2,4,5— trichlorophenyl phosphorothioate)	12.90	16.04	Passed
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Korlan (O, O-dimethyl -2,4,5— tri- chlorophenyl phosphorothioate)....	12.90	15.54	Passed
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MALATHION

Acme Quality Paints, Inc.

Acme 50 % Malathion Spray

Malathion	50.00	53.20	Passed
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Allied Drug Products Company

Allied Fly Bait

Malathion	3.00	2.34	Deficient
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
California Chemical Company-Ortho Div.			
Ortho Malathion Garden Dust			
Malathion	5.00	4.06	Deficient
do	5.00	4.19	Deficient
do	5.00	4.18	Deficient
do	5.00	4.82	Passed
do	5.00	5.65	Passed
California Spray-Chemical Corp. (Now: California Chemical Company-Ortho Div.)			
Ortho Malathion 25 Wettable			
Malathion	25.00	26.65	Passed
Ortho Malathion 50 Spray			
Malathion	50.00	51.80	Passed
Ortho Malathion 5 Emulsive			
Malathion	55.00	58.65	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 4% Malathion Dust			
Malathion	4.00	3.73	Deficient
do	4.00	3.99	Passed
do	4.00	3.95	Passed
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand 4% Malathion Dust			
Malathion	4.00	4.05	Passed
Eagle Products Company			
Flipo Special Fly Bait			
Malathion	1.00	1.91	Excessive Active Ingredient
Farmers Cooperative Exchange, Inc.			
FCX Bean Dust			
Malathion	3.00	2.38	Deficient
FCX 4% Malathion Dust			
Malathion	4.00	3.98	Passed
do	4.00	3.93	Passed
FCX Pet Dust			
Malathion	4.00	3.84	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
FCX Cattle and Poultry Dust			
Malathion	5.00	4.66	Deficient
do	5.00	4.30	Deficient
do	5.00	4.68	Deficient
do	5.00	4.79	Passed
do	5.00	4.80	Passed
do	5.00	4.80	Passed
do	5.00	5.01	Passed
FCX Malathion Spray			
Malathion	51.30	55.30	Passed
do	51.30	55.62	Passed
FCX Malathion Emulsifiable Concentrate			
Malathion	55.20	56.62	Passed
Florida Agricultural Supply Company			
Fly Flakes			
Malathion	1.00	2.03	Excessive Active Ingredient
Fasco Malathion 25-WP			
Malathion	25.00	24.10	Not Registered
Gaston Johnson Corp.			
Johnson's No Roach			
Malathion	2.00	2.24	Passed
GurMiCo Chemicals, Inc.			
GurMiCo 4% Malathion Dust			
Malathion	4.00	3.53	Deficient
do	4.00	3.97	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 4% Malathion Dust			
Malathion	4.00	3.74	Deficient
do	4.00	3.44	Deficient
do	4.00	3.66	Deficient
do	4.00	3.73	Deficient
do	4.00	4.18	Passed
do	4.00	3.85	Passed
do	4.00	4.15	Passed
Maxwell Malathion 55% Emulsion			
Malathion	55.00	53.69	Passed
do	55.00	59.49	Passed
Olin Mathieson Chemical Corp.			
Mathieson Malathion 4% Dust			
Malathion	4.00	3.66	Deficient
do	4.00	4.90	Passed
do	4.00	3.81	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Mathieson Malathion 5 lbs. Emulsifiable Concentrate			
Malathion	57.00	56.59	Passed
Pearson and Company			
Pearson's Waterbug and Roach Killer			
Malathion	5.00	5.22	Passed
W. R. Peele Company, Inc.			
Pelco 4% Malathion Dust			
Malathion	4.00	4.47	Passed
Quality Chemical Corp. (Now: Carolina Chemical Corp.)			
Malathion Emulsifiable Concentrate			
Malathion	55.00	43.72	Deficient
Ralston Purina Company			
Purina Malathion Spray			
Malathion	57.00	58.35	Passed
Rigo Manufacturing Company			
Kill-Ko Flea Powder			
Malathion	4.00	4.11	Passed
do	4.00	4.58	Passed
Kill-Ko Malathion 5% Dust			
Malathion	5.00	4.84	Passed
Southern Agricultural Insecticides, Inc.			
SA-50 Brand 4% Malathion Dust			
Malathion	4.00	3.97	Passed
do	4.00	4.44	Passed
do	4.00	3.95	Passed
SA-50 Brand 5% Malathion Dust			
Malathion	5.00	5.42	Passed
do	5.00	5.01	Passed
do	5.00	5.43	Passed
do	5.00	5.48	Passed
do	5.00	5.44	Passed
SA-50 Brand 53% Emulsible Malathion			
Malathion	53.00	56.09	Passed
Swift and Company Agricultural Chemical Division			
Swift's Gold Bear Malathion-G 5 E			
Malathion	55.20	53.15	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Taylor Chemical Company			
Superkill 4% Malathion Dust			
Malathion	4.00	3.73	Deficient
do	4.00	4.68	Passed
United Cooperatives, Inc. (Registered by—Farmers Cooperative Exchange, Inc.)			
Unico Malathion Spray Powder			
Malathion	25.00	22.05	Deficient
Unico Malathion 51 Spray			
Malathion	51.30	51.39	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand Flea Killer			
Malathion	4.00	4.50	Passed
Security Brand 5% Malathion Dust			
Malathion	5.00	4.19	Deficient
do	5.00	5.22	Passed
Security Brand 25% Malathion Wettable			
Malathion	25.00	27.83	Passed
Security Brand 55% Malathion Emulsifiable Liquid			
Malathion	55.00	59.70	Passed
MALATHION-BHC			
Carbola Chemical Company, Inc.			
Carbola Dry Insecticide			
Malathion	0.66	0.46	Passed
Gamma isomer of BHC.....	0.22	0.29	
Ralston Purina Company			
Purian Poultry Insecticide			
Malathion	2.80	2.85	Passed
Gamma isomer of BHC.....	1.45	1.62	
MALATHION-BHC-DDD			
United Cooperatives, Inc. (Registered by—Farmers Cooperative Exchange, Inc.)			
Unico Garden Spray Concentrate			
Malathion	12.50	13.89	Passed
Gamma isomer of BHC.....	5.00		
DDD	5.00		
Theoretical chlorine.....	5.87	6.78	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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MALATHION-BHC-NEUTRAL OILS-PHENOLS**Carbola Chemical Company, Inc.**

Carbola Disinfecting White Paint contains
Malathion-Lindane

Malathion	0.66	0.43	Excessive Active Ingredients
Gamma isomer of BHC.....	0.22	0.28	
Neutral Oils.....	1.40	2.72	
Phenols	1.60	1.84	

MALATHION-CAPTAN-METHOXYCHLOR-SULFUR**Boyle-Midway, Inc.**

Antrol Multi-Purpose Dust contains
Malathion and Captan

Malathion	4.00	4.26	Passed
Captan.....	4.00		
Methoxchlor.....	5.00		
Sulfur	25.00	25.87	
Theoretical chlorine.....	2.94	3.15	

MALATHION-CHLORDANE-PIPERONYL BUTOXIDE-PYRETHRINS**Ralston Purina Company**

Purine Roach Bomb

Malathion	1.00	1.06	Passed
Chlordane	1.00	1.12	
Piperonyl butoxide.....	0.10	0.082	
Pyrethrins	0.05	0.074	

Rigo Manufacturing Company

Kill-Ko New Improved Roach and Ant Household Spray

Malathion	1.00	0.96	Passed
Chlordane	2.00	2.51	
Piperonyl butoxide.....	0.125	0.102	
Pyrethrins	0.050	0.069	

MALATHION-DDVP**California Spray-Chemical Corp.**

(Now: California Chemical Company-Ortho Div.)

Ortho Fly Killer Dry Bait

Malathion	1.00		Passed
DDVP (O, O-dimethyl 2,2-dichloro- vinyl phosphate).....	0.50		
Theoretical phosphorus.....	0.16	0.15	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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MALATHION-DIETHYL-PIPERONYL BUTOXIDE-PYRETHRINS

Boyle-Midway, Inc.

Black Flag Ant and Roach Killer

Malathion	1.00	1.22	Passed
Diethrin.....	0.30	0.41	
Piperonyl butoxide.....	0.10	0.094	
Pyrethrins	0.04	0.05	
Malathion	1.00	0.98	Passed
Diethrin.....	0.30	0.28	
Piperonyl butoxide.....	0.10	0.087	
Pyrethrins	0.04	0.06	
Malathion	1.00	1.12	Passed
Diethrin.....	0.30	0.30	
Piperonyl butoxide.....	0.10	0.096	
Pyrethrins	0.04	0.041	
Malathion	1.00	1.18	Passed
Diethrin.....	0.30	0.38	
Piperonyl butoxide.....	0.10	0.101	
Pyrethrins	0.04	0.045	

California Spray-Chemical Corp.

(Now: California Chemical Company-Ortho Div.)

Ortho Ant and Roach Bomb

Malathion	2.00	1.95	Passed
Diethrin.....	0.30	0.35	
Piperonyl butoxide.....	0.12	0.128	
Pyrethrins	0.05	0.065	
Malathion	2.00	2.19	Passed
Diethrin.....	0.30	0.36	
Piperonyl butoxide.....	0.12	0.11	
Pyrethrins	0.05	0.08	
Malathion	2.00	2.09	Passed
Diethrin.....	0.30	0.37	
Piperonyl butoxide.....	0.12	0.11	
Pyrethrins	0.05	0.08	
Malathion	2.00	2.06	Passed
Diethrin.....	0.30	0.33	
Piperonyl butoxide.....	0.12	0.103	
Pyrethrins	0.05	0.31	

MALATHION-METHOXYCHLOR

Farmers Cooperative Exchange, Inc.

FCX Bean Dust

Malathion	3.00	2.88	Passed
Methoxychlor.....	3.00	3.10	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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MALATHION-ORGANIC THIOCYANATES**Outdoor Recreation, Inc.**

Smo-Kee Insecticide Aerosol Thermal Fogger

Malathion	----	----	Not Registered Misbranded
Beta butoxy beta thiocyno diethyl ether	----	----	
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**MALATHION-PIPERONYL BUTOXIDE-PYRETHRINS
TERPENE POLYCHLORINATES-THANITE****California Spray-Chemical Corp.**

(Now: California Chemical Company-Ortho Div.)

Ortho Household Insect Bomb

Malathion	1.00	1.09	Passed
Piperonyl butoxide.....	0.20	0.11	
Pyrethrins	0.025	0.11	
Terpene polychlorinates.....	1.00	1.36	
Thanite	1.00	present	
Malathion	1.00	1.03	Passed
Piperonyl butoxide.....	0.20	0.15	
Pyrethrins	0.025	0.113	
Terpene polychlorinates.....	1.00	1.04	
Thanite	1.00	present	
Malathion	1.00	0.97	Passed
Piperonyl butoxide.....	0.20	0.18	
Pyrethrins	0.025	0.04	
Terpene polychlorinates.....	1.00	0.95	
Thanite	1.00	present	

MALATHION-SULFUR**Southern Agricultural Insecticides, Inc.**

SA-50 Brand 4 % Malathion Dust

Malathion	4.00	4.01	Passed
Sulfur	25.00	25.90	

SA-50 Brand 4 % Malathion 70 % Sulfur 1 % Manganese

Malathion	4.00	4.15	Passed
Sulfur	70.00	66.59	

MANEB**Sears, Roebuck and Company**

Cross Country Rose and Floral Fungicide

Maneb (Manganese ethylene bisdi- thiocarbamate)	70.00	77.24	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Manzate Dust			
Maneb (Manganese ethylene bisdi- thiocarbamate)	5.60	6.45	Passed
METHOXYCHLOR			
E. I. du Pont de Nemours and Company			
Du Pont Dairy Cattle Insecticide			
Methoxychlor.....	50.00	51.71	Passed
do	50.00	52.00	Passed
Geigy Agricultural Chemicals			
Geigy Methoxychlor "50"			
Methoxychlor.....	50.00	51.06	Passed
do	50.00	48.18	Passed
Rigo Manufacturing Company			
Kill-Ko Methoxychlor Dairy Kattle Dust			
Methoxychlor.....	10.00	5.46	Deficient
Ralston Purina Company			
Purina Dairy Cattle Dust			
Methoxychlor.....	10.00	9.77	Passed
METHOXYCHLOR-ALLETHRIN-DDT-THANITE			
B. T. Babbitt, Inc.			
Hep Aerosol Insect Killer			
Methoxychlor.....	1.00		Deficient
Allethrin	0.10	present	
DDT	3.00		
Thanite	1.00	present	
Theoretical chlorine.....	1.80	1.64	
METHOXYCHLOR-ARAMITE-BHC-FERBAM-SULFUR			
E. I. du Pont de Nemours and Company			
Du Pont Rose Insecticide and Fungicide			
Methoxychlor.....	5.00		Passed
Aramite.....	1.50		
Gamma isomer of BHC.....	1.00		
Ferric dimethyl dithiocarbamate.....	7.60	7.74	
Sulfur	27.00	28.26	
Theoretical chlorine.....	2.41	2.68	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
METHOXYCHLOR-BHC-SULFUR			
Ralston Purina Company			
Purina Insect Killer			
Methoxychlor.....	2.50		Passed
Gamma isomer of BHC.....	0.50		
Sulfur	10.00	10.93	
Theoretical chlorine.....	1.13	1.35	
Methoxychlor.....	2.50		Passed
Gamma isomer of BHC.....	0.50		
Sulfur	10.00	10.84	
Theoretical chlorine.....	1.13	1.30	
Methoxychlor.....	2.50		Passed
Gamma isomer of BHC.....	0.50		
Sulfur	10.00	10.85	
Theoretical chlorine.....	1.13	1.23	
METHOXYCHLOR-CAPTAN-MALATHION			
California Spray-Chemical Corp.			
(Now: California Chemical Company-Ortho Div.)			
Ortho Home Orchard Spray			
Methoxychlor.....	15.00		Passed
Captan.....	15.00		
Malathion	7.50	7.57	
Theoretical chlorine.....	9.87	10.99	
Methoxychlor.....	15.00		Deficient
Captan.....	15.00		
Malathion	7.50	6.22	
Theoretical chlorine.....	9.87	10.71	
National Carbon Company			
(Now: Union Carbide Consumer Products Company)			
(Division of Union Carbide Corp.)			
Eveready Fruit Tree Spray			
Methoxychlor.....	12.00		Deficient
Captan.....	12.00		
Malathion	6.00	4.70	
Theoretical chlorine.....	7.90	8.50	
Science Products Company			
Garden Dust			
Methoxychlor.....	5.00		Deficient
Captan.....	5.00		
Malathion	5.00	3.09	
Theoretical chlorine.....	3.29	3.22	
Methoxychlor.....	5.00		Deficient
Captan.....	5.00		
Malathion	5.00	4.05	
Theoretical chlorine.....	3.29	3.55	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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METHOXYCHLOR-CAPTAN-MALATHION-SULFUR**Sears, Roebuck and Company**

Cross Country Three Way Garden Dust

Methoxychlor.....	5.00		Deficient
Captan.....	5.00		
Malathion	4.00	2.24	
Sulfur	5.00	6.75	
Theoretical chlorine.....	3.29	3.15	

METHOXYCHLOR-CAPTAN-ROTENONE**California Spray-Chemical Corp.**

(Now: California Chemical Company-Ortho Div.)

Ortho Tomato Vegetable Dust

Methoxychlor.....	5.00		Passed
Captan	5.00		
Rotenone.....	0.75	present	
Theoretical chlorine.....	3.29	3.55	
Methoxychlor.....	5.00		Passed
Captan	5.00		
Rotenone.....	0.75	present	
Theoretical chlorine.....	3.29	3.60	
Methoxychlor.....	5.00		Passed
Captan	5.00		
Rotenone.....	0.75	present	
Theoretical chlorine.....	3.29	3.21	

METHOXYCHLOR-CAPTAN-ROTENONE-SULFUR**United Cooperatives, Inc.**

(Registered by—Farmers Cooperative Exchange, Inc.)

Unico Dust for Small Fruits

Methoxychlor.....	5.00		Passed
Captan.....	7.50		
Rotenone.....	1.00	present	
Sulfur	25.00	25.69	
Theoretical chlorine.....	4.17	4.20	
Methoxychlor.....	5.00		Passed
Captan.....	7.50		
Rotenone.....	1.00	present	
Sulfur	25.00	25.06	
Theoretical chlorine.....	4.17	4.35	
Methoxychlor.....	5.00		Passed
Captan.....	7.50		
Rotenone.....	1.00	present	
Sulfur	25.00	24.71	
Theoretical chlorine.....	4.17	5.85	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Unico Dust for Small Fruits (Continued)			
Methoxychlor.....	5.00		Passed
Captan.....	7.50		
Rotenone.....	1.00	present	
Sulfur.....	25.00	26.77	
Theoretical chlorine.....	4.17	4.36	

METHOXYCHLOR-DDT-PIPERONYL BUTOXIDE PYRETHRINS-ROTENONE

Boyle-Midway, Inc.

Black Flag House and Garden Insect Killer

Methoxychlor.....	1.00		Passed
DDT.....	1.00		
Piperonyl butoxide.....	0.25	0.24	
Pyrethrins.....	0.20	0.27	
Rotenone.....	0.10	present	
Theoretical chlorine.....	0.80	0.92	

METHOXYCHLOR-DICHLONE-PYRETHRINS- ROTENONE

Swift and Company

Agricultural Chemical Division

End-O-Pest Rose and Garden Spray

Methoxychlor.....	0.30		Passed
Dichlone (2,3-dichloro-1, 4 naph- thoquinone).....	0.12		
Pyrethrins.....	0.12	0.06	
Rotenone.....	0.10	present	
Theoretical chlorine.....	0.13	0.12	

METHOXYCHLOR-FERBAM-ROTENONE-ZIRAM

Acme Quality Paints, Inc.

Acme All Round Dust

Methoxychlor.....	5.00	4.89	Passed
Ferric dimethyl dithiocarbamate.....	4.00		
Rotenone.....	0.75	present	
Zinc dimethyl dithiacarbamate.....	4.00		
Theoretical carbon disulfide.....	4.18	3.99	

METHOXYCHLOR-FERBAM-SULFUR

E. I. du Pont de Nemours and Company

Du Pont Fruit Tree Spray

Methoxychlor.....	12.50	13.21	Passed
Ferric dimethyl dithiacarbamate.....	15.20	15.37	
Sulfur.....	24.20	24.47	
Methoxychlor.....	12.50	13.84	Passed
Ferric dimethyl dithiacarbamate.....	15.20	15.29	
Sulfur.....	24.20	24.77	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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METHOXYCHLOR-HEXACHLOROPHENE- PIPERONYL BUTOXIDE-PYRETHRINS

The R. T. French Company

Shoo Flea

Methoxychlor.....	0.50		Passed
Hexachlorophene.....	0.10		
Piperonyl butoxide.....	0.48	0.40	
Pyrethrins	0.06	0.083	
Theoretical chlorine.....	0.20	0.21	
Methoxychlor.....	0.50		Passed
Hexachlorophene.....	0.10		
Piperonyl butoxide.....	0.48	0.50	
Pyrethrins	0.06	0.09	
Theoretical chlorine.....	0.20	0.22	

METHOXYCHLOR-MALATHION

Agricultural Specialties

M and M Dairy Cattle Dust

Methoxychlor.....	5.00	5.04	Passed
Malathion	4.00	4.20	

METHOXYCHLOR-PYRETHRINS

Real-Kill Products

Division of Cook Chemical Company

Real-Kill Insect Spray

Methoxychlor.....	0.50	0.51	Passed
Pyrethrins	0.064	0.068	

METHOXYCHLOR-PIPERONYL BUTOXIDE-PYRETHRINS

Colgate Palmolive Company

Kan-Kil Bug Killer for House and Garden

Methoxychlor.....	2.00	1.78	Deficient
Piperonyl butoxide.....	1.00	1.13	
Pyrethrins	0.20	0.22	

California Spray-Chemical Corp.

(Now: California Chemical Company-Ortho Div.)

Ortho Home and Garden Insect Bomb

Methoxychlor.....	2.00	2.08	Passed
Piperonyl butoxide.....	0.50	0.492	
Pyrethrins	0.10	0.111	
Methoxychlor.....	2.00	1.91	Passed
Piperonyl butoxide.....	0.50	0.48	
Pyrethrins	0.10	0.10	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Gulf Oil Corp.			
Quick Action Gulf Spray			
Methoxychlor.....	0.75	0.81	Passed
Piperonyl butoxide.....	0.12	0.11	
Pyrethrins	0.10	0.11	
Methoxychlor.....	0.75	0.83	Passed
Piperonyl butoxide.....	0.12	0.13	
Pyrethrins	0.10	0.09	
Methoxychlor.....	0.75	0.84	Passed
Piperonyl butoxide.....	0.12	0.13	
Pyrethrins	0.10	0.106	
Gulf Spray-Aerosol			
Methoxychlor.....	2.00	2.01	Passed
Piperonyl butoxide.....	1.00	0.91	
Pyrethrins	0.25	0.306	
Methoxychlor.....	2.00	2.06	Passed
Piperonyl butoxide.....	1.00	1.22	
Pyrethrins	0.25	0.30	
Hot Shot Quality Products, Inc.			
Hot Shot House and Garden Bug Killer			
Methoxychlor.....	2.00	2.08	Passed
Piperonyl butoxide.....	0.30	0.31	
Pyrethrins	0.20	0.20	
Methoxychlor.....	2.00	2.10	Passed
Piperonyl butoxide.....	0.30	0.29	
Pyrethrins	0.20	0.294	
Penola Oil Company (Now: Humble Oil and Refining Company)			
Flit Aerosol House and Garden Insect Killer			
Methoxychlor.....	2.00	2.52	Passed
Piperonyl butoxide.....	1.00	1.19	
Pyrethrins	0.20	0.17	
Rigo Manufacturing Company			
Kill-Ko Insect Bomb for House and Garden			
Methoxychlor.....	2.00	2.45	Passed
Piperonyl butoxide.....	0.50	0.54	
Pyrethrins	0.10	0.10	
METHOXYCHLOR-PIPERONYL BUTOXIDE- PYRETHRINS-THANITE			
California Chemical Company-Ortho Div.			
Ortho Fly Spray			
Methoxychlor.....	0.50	0.58	Passed
Piperonyl butoxide.....	0.50	0.53	
Pyrethrins	0.05	0.06	
Thanite	0.30	present	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
METHOXYCHLOR-ROTENONE			
Pratt Laboratories, Inc.			
Pratts Lice Killer			
Methoxychlor.....	0.50	0.77	Deficient
Rotenone.....	1.00	0.73	
METHYL PARATHION			
Atlas Agricultural Chemicals, Inc.			
Atlas 2½ % Methyl Parathion Dust			
O, O-dimethyl O-P-nitrophenyl thiophosphate	2.50	2.65	Passed
Taylor Chemical Company			
Superkill 25% Methyl Parathion			
O, O-dimethyl O-P-nitrophenyl phosphorothioate	25.00	24.91	Passed
NEMAGON			
Stephenson Chemical Company			
Stephenson 30% Nemagon			
1,2-dibromo-3-chloropropane and other halogenated C ³ compounds	30.00	29.36	Passed
Taylor Chemical Company			
Superkill 30% Granulated Nemagon			
1,2-dibromo-3-chloropropane and other halogenated C ³ compounds	30.00	30.22	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand 10% Granulated Nemagon			
1,2-dibromo-3-chloropropane and other halogenated C ³ compounds	10.00	9.22	Deficient
1,2-dibromo-3-chloropropane and other halogenated C ³ compounds	10.00	9.06	Deficient
PARADICHLOROBENZENE			
Merck and Company, Inc.			
Di-Chloricide Moth Crystals			
Paradichlorobenzene.....	100.00	96.42	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Reliable Chemical Company			
Para Zene			
Paradichlorobenzene.....	100.00	100.00	Not Registered
PARATHION			
Cape Fear Chemicals, Inc.			
Tiger Brand 1 % Parathion Dust			
Parathion.....	1.00	0.92	Deficient
Olin Mathieson Chemical Corp.			
Mathieson Parathion 2 % Dust			
Parathion.....	2.00	1.92	Passed
W. R. Peele Company, Inc.			
Pelco 1 % Parathion Dust			
Parathion.....	1.00	1.21	Passed
PARATHION-SULFUR			
Taylor Chemical Company			
Superkill Peach Spray No. 2			
Parathion.....	3.70	4.08	Passed
Sulfur	75.00	77.21	
PARATHION-SULFUR-ZINC			
Taylor Chemical Company			
Superkill Peach Spray No. 6			
Parathion.....	2.73	2.68	Passed
Sulfur	54.50	54.88	
Zinc.....	14.54	13.85	
PERTHANE			
S. C. Johnson and Son, Inc.			
Raid Moth Proofer			
Perthane	5.00	4.88	Misbranded
Mike, Inc.			
Cabbage Dust No. 6			
Perthane	6.00	6.13	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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PERTHANE-PIPERONYL BUTOXIDE-PYRETHRINS**Ralston Purina Company****Purina Home Spray**

Perthane	1.00	1.19	Passed
Piperonyl butoxide.....	0.24	0.28	
Pyrethrins	0.03	0.04	

PIVALYN**Ralston Purina Company****Purina Rat-Kill**

Sodium salt of 2-pivalyl-1,3-indan- dione.....	0.0275	0.021	Passed
do	0.0275	0.0201	Passed
do	0.0275	0.023	Passed
do	0.0275	0.0205	Passed

PYRETHRINS**Dr. L. D. LeGear Medicine Company
(Now: Dr. LeGear, Inc.)****Dr. LeGear's Pet Powder**

Pyrethrins	0.50	0.52	Passed
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McCormick and Company, Inc.**Bee Brand Insect Powder**

Pyrethrins	0.75	0.981	Passed
do	0.75	0.84	Passed

PYRETHRINS-DIAZINON**Colonial Products, Inc.****Colonial RCS Residual Contact Spray**

Pyrethrins	0.052	0.071	Passed
Diazinon [O,O-diethyl O-(2-isopro- pyl-4-methyl-6-pyrimidinyl) phos- phorothioate]	0.50	0.49	

PYRETHRINS-DIAZINON-PIPERONYL BUTOXIDE**Ralston Purina Company****Purine Roach Bomb**

Pyrethrins	0.05	0.12	Passed
Diazinon [O,O-diethyl O-(2-isopro- pyl-4-methyl-6-pyrimidinyl) phos- phorothioate]	0.50	0.57	
Piperonyl butoxide.....	0.10	0.06	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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PYRETHRINS-2,2'-METHYLENE BIS (3,4,6-TRICHLOROPHENOL-PIPERONYL BUTOXIDE

Ralston Purina Company

Purina Dog Shampoo

Pyrethrins	0.05	present	Passed
2,2-methylene bis(3,4,6-trichloro-phenol)	1.00	1.10	
Piperonyl butoxide.....	0.50	0.54	

PYRETHRINS-ORGANIC THIOCYANATES

Real-Kill Products

Division of Cook Chemical Company

Real-Kill Indoor-Outdoor Bomb

Pyrethrins	0.20	0.19	Passed
Beta butoxy beta thiocyno diethyl ether	0.50	present	

PYRETHRINS-ORGANIC-THIOCYANATES-PINE OIL-PIPERONYL BUTOXIDE

Ralston Purina Company

Purina Dairy Spray

Pyrethrins	0.03	0.06	Passed
Beta butoxy beta thiocyno diethyl ether	1.00	present	
Pine Oil.....	2.00	present	
Piperonyl butoxide.....	0.24	0.19	

PYRETHRINS-PIPERONYL BUTOXIDE

Agricultural Specialties

Starbar Redi Foam Face Fly Bomb

Pyrethrins	0.10	0.10	Passed
Piperonyl butoxide.....	1.00	1.12	

The Great Atlantic and Pacific Tea Company

New Bright Sail Aerosol Insect Killer

Pyrethrins	0.30	0.46	Passed
Piperonyl butoxide.....	0.60	0.87	
Pyrethrins	0.30	0.23	Passed
Piperonyl butoxide.....	0.60	0.55	
Pyrethrins	0.30	0.28	Passed
Piperonyl butoxide.....	0.60	0.65	
Pyrethrins	0.30	0.29	Passed
Piperonyl butoxide.....	0.60	0.69	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Barker, Moore, and Mein Company			
Barker's New Improved Cattle Fly Spray			
Pyrethrins	0.05	0.10	Passed
Piperonyl butoxide.....	0.10	0.09	
California Spray-Chemical Corp. (Now: California Chemical Company-Ortho Div.)			
Ortho Dairy and Stock Fly Spray—Contains R-11 Repellent			
Pyrethrins	---	0.036	Misbranded
Piperonyl butoxide.....	---	0.26	
Chambers-Godfrey Manufacturing Company			
Chambers' Anti Skipper Compound			
Pyrethrins	0.10	0.054	Passed
Piperonyl butoxide.....	1.00	0.90	
Colgate-Palmolive Company			
Kan-Kil Fly and Mosquito Killer			
Pyrethrins	0.20	0.249	Passed
Piperonyl butoxide.....	0.72	0.66	
The Dill Company			
Dill Spray Insect Killer			
Pyrethrins	0.25	0.29	Passed
Piperonyl butoxide.....	1.50	2.10	
Hot Shot Quality Products, Inc.			
Hot Shot Insect Killer-Liquid			
Pyrethrins	0.10	0.12	Passed
Piperonyl butoxide.....	0.15	0.14	
Hot Shot Insect Killer			
Pyrethrins	0.250	0.24	Passed
Piperonyl butoxide.....	0.375	0.34	
S. C. Johnson and Son, Inc.			
Raid Insect Spray			
Pyrethrins	0.075	0.137	Passed
Piperonyl butoxide.....	0.150	0.12	
Pyrethrins	0.075	0.081	Passed
Piperonyl butoxide.....	0.150	0.13	
Rigo Manufacturing Company			
Kill-Ko Kattle Spray			
Pyrethrins	0.03	0.69	Passed
Piperonyl butoxide.....	0.30	0.376	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
PYRETHRINS-PIPERONYL BUTOXIDE- TERPENE POLYCHLORINATES			
Colgate-Palmolive Company			
Kan-Kil Fly and Mosquito Killer			
Pyrethrins	0.20	0.22	Passed
Piperonyl butoxide.....	0.50	0.53	
Terpene chlorinates.....	2.00	2.07	
Dr. Hess and Clark, Inc.			
Hess Bomb with Dramatic Strobane			
Pyrethrins	0.20	0.23	Passed
Piperonyl butoxide.....	0.80	0.91	
Terpene chlorinates.....	2.00	1.95	
Pyrethrins	0.20	0.19	Passed
Piperonyl butoxide.....	0.80	0.92	
Terpene polychlorinates.....	2.00	1.91	
ROTENONE			
Acme White Lead and Color Works (Now: Acme Quality Paints, Inc.)			
Acme Garden Guard Contains 1 % Rotenone			
Rotenone	1.00	0.83	Passed
Cape Fear Chemicals, Inc.			
Tiger Brand 1 % Rotenone Dust			
Rotenone	1.00	0.69	Deficient
do	1.00	1.01	Passed
do	1.00	0.67	Deficient
Carolina Chemical Corp. (Formerly: Quality Chemical Corp.)			
Rotenone 1 % Dust			
Rotenone	1.00	0.83	Passed
Carolina Chemicals, Inc.			
Flight Brand Bean Beetle Dust			
Rotenone	1.00	0.89	Passed
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand 1 % Rotenone			
Rotenone	1.00	0.72	Deficient

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Daly-Herring Company			
Dee Aitch 1 % Rotenone Dust			
Rotenone	1.00	0.73	Deficient
do	1.00	1.16	Passed
Farmers Cooperative Exchange, Inc.			
FCX Rotox "100" Dust			
Rotenone	1.00	0.81	Passed
do	1.00	0.82	Passed
do	1.00	0.96	Passed
do	1.00	0.86	Passed
do	1.00	0.85	Passed
do	1.00	0.89	Passed
do	1.00	1.02	Passed
GurMiCo Chemicals, Inc.			
GurMiCo 1 % Rotenone Dust			
Rotenone	1.00	0.91	Misbranded
do	1.00	1.03	Misbranded
do	1.00	0.85	Passed
do	1.00	0.86	Passed
do	1.00	0.98	Passed
do	1.00	0.88	Passed
do	1.00	0.84	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 1 % Rotenone Dust			
Rotenone	1.00	0.75	Deficient
Miller Chemical and Fertilizer Corp.			
Miller Dust Containing Rotenone 1.00 %			
Rotenone	1.00	0.98	Passed
Pennington Grain and Seed Company (Registered by—Stephenson Chemical Company, Inc.)			
Pennington Brand 1 % Rotenone			
Rotenone	1.00	0.91	Passed
Planters Chemical Corp.			
Planters 1 % Rotenone Dust			
Rotenone	1.00	1.04	Passed
Quality Chemical Corp. (Now: Carolina Chemical Corp.)			
Rotenone 1 % Dust			
Rotenone	1.00	0.78	Deficient
do	1.00	0.80	Passed
do	1.00	0.80	Passed
do	1.00	0.89	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Seacoast Laboratories, Inc.			
Twin Light Dustall Rotenone 1 % Dust			
Rotenone.....	1.00	0.73	Deficient
Southern Agricultural Chemicals, Inc.			
Royal Brand 1 % Rotenone Dust			
Rotenone.....	1.00	0.66	Deficient Not Registered
Taylor Chemical Company			
Superkill 1 % Rotenone Dust			
Rotenone.....	1.00	0.89	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand Mexide 1 % Rotenone Dust			
Rotenone.....	1.00	0.77	Deficient
do	1.00	0.67	Deficient
ROTENONE-ARAMITE-DDT-PIPERONYL CYCLONENE			
Sears, Roebuck and Company			
Cross Country Spray for Evergreens			
Rotenone.....	0.65	present	Passed
Aramite.....	2.00		
DDT	10.00		
Piperonyl cyclonene.....	1.30	present	
Theoretical chlorine.....	5.21	5.25	
ROTENONE-COPPER OXIDE			
Parrott Chemical Company			
Lucky Strike Crop Maker			
Rotenone.....	0.80	0.71	Not
Copper oxide.....	5.00	5.08	Registered
ROTENONE-DICHLONE-PYRETHRINS-PIPERONYL BUTOXIDE			
Sears, Roebuck and Company			
Cross Country Rose and Floral Spray			
Rotenone.....	0.128	Present	Passed
Dichlone (2,3-dichloro-1,4 naph- thoquinone)	0.120	0.18	
Piperonyl butoxide.....	0.256	0.24	
Pyrethrins	0.025	0.066	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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ROTENONE-ORGANIC THIOCYANATES-SULFUR**Black Panther Company**

Black Panther Dust

Rotenone.....	0.75	0.68	Passed
Beta beta dithiocyno diethyl ether	0.20	present	
Sulfur	10.00	10.47	
Rotenone.....	0.75	0.60	Passed
Beta beta dithiocyno diethyl ether	0.20	present	
Sulfur	10.00	10.24	
Rotenone.....	0.75	0.69	Passed
Beta beta dithiocyno diethyl ether	0.20	present	
Sulfur	10.00	10.76	
Rotenone.....	0.75	0.68	Passed
Beta beta dithiocyno diethyl ether	0.20	present	
Sulfur	10.00	10.53	
Rotenone.....	0.75	0.72	Passed
Beta beta dithiocyno diethyl ether	0.20	present	
Sulfur	10.00	11.14	

Parrott Chemical Company

Lucky Strike Beetle Buster Formula 100

Rotenone.....	0.75	0.29	Deficient Not Registered
Beta thiocyno ethyl ester of ali- phatic fatty acids-10 to 18 car- bon atoms.....	1.00	present	
Sulfur	15.00	17.47	

ROTENONE-PIPERONYL BUTOXIDE- PYRETHRINS**California Spray-Chemical Corp.****(Now: California Chemical Company-Ortho Div.)**

Ortho Indoor Plant Bomb

Rotenone.....	0.13	present	Passed
Piperonyl butoxide.....	0.25	0.33	
Pyrethrins	0.02	0.06	

Sears, Roebuck and Company

Cross Country House Plant Insect Bomb

Rotenone.....	0.128	present	Passed
Piperonyl butoxide.....	0.256	0.350	
Pyrethrins	0.025	0.041	
Rotenone.....	0.128	present	Passed
Piperonyl butoxide.....	0.256	0.25	
Pyrethrins	0.025	0.065	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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ROTENONE-PIPERONYL-BUTOXIDE- PYRETHRINS-SULFUR

Planters Chemical Corp.

P.D.Q. Bean and Garden Dust

Rotenone.....	0.40	0.19	Deficient
Piperonyl butoxide.....	0.37	0.35	
Pyrethrins	0.03	0.18	
Sulfur	10.00	9.06	

ROTENONE-PIPERONYL-BUTOXIDE- PYRETHRINS-SULFUR-ZINEB

National Carbide Company

(Now: Union Carbide Consumer Products Company)

Division of Union Carbide Corp.

Eveready Vegetable Dust

Rotenone.....	0.50	present	Deficient
Piperonyl butoxide.....	0.84	0.92	
Pyrethrins	0.05	0.06	
Sulfur	15.00	17.07	
Zinc ethylene bisdithiocarbamate....	6.00	3.94	
Rotenone.....	0.50	present	Deficient
Piperonyl butoxide.....	0.84	1.30	
Pyrethrins	0.05	0.09	
Sulfur	15.00	15.31	
Zinc ethylene bisdithiocarbamate....	6.00	5.06	

ROTENONE-PYRETHRINS

The Pfeiffer Company

Lynn's Flea Powder for Pets

Rotenone.....	1.00	1.38	Passed
Pyrethrins	0.07	0.21	

ROTENONE-PYRETHRINS-SULFUR

Southern Agricultural Insecticides, Inc.

SA-50 Brand for Mexican Bean Beetle Control

Rotenone.....	0.50	0.55	Deficient
Pyrethrins	0.04	0.07	
Sulfur	18.00	14.14	
Rotenone.....	0.50	0.63	Passed
Pyrethrins	0.08	0.22	
Sulfur	18.00	17.93	
Rotenone.....	0.50	0.52	Passed
Pyrethrins	0.08	0.12	
Sulfur	18.00	18.01	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SA-50 Brand for Mexican Bean Beetle Control (Continued)			
Rotenone.....	0.50	0.52	Passed
Pyrethrins	0.08	0.20	
Sulfur	18.00	18.91	
SA-50 Brand SA-100 for Mexican Bean Beetle Control			
Rotenone.....	1.00	0.98	Passed
Pyrethrins	0.08	0.18	
Sulfur	18.00	19.48	
Rotenone.....	1.00	0.84	Passed
Pyrethrins	0.08	0.09	
Sulfur	18.00	17.97	
Rotenone.....	1.00	0.80	Passed
Pyrethrins	0.08	0.19	
Sulfur	18.00	17.46	
Rotenone.....	1.00	0.94	Passed
Pyrethrins	0.08	0.23	
Sulfur	18.00	19.25	
Rotenone.....	1.00	0.91	Passed
Pyrethrins	0.08	0.24	
Sulfur	18.00	19.62	

ROTENONE-PYRETHRINS-SULFUR-ZINEB

Swift and Company Agricultural Chemical Division

End-O-Pest 3 Way Garden Dust

Rotenone.....	1.00	0.75	Deficient
Pyrethrins	0.10	0.095	
Sulfur	10.00	11.48	
Zinc ethylene bisdithiocarbamate....	3.25	3.29	Deficient
Rotenone.....	1.00	0.67	
Pyrethrins	0.10	0.212	
Sulfur	10.00	10.86	
Zinc ethylene bisdithiocarbamate....	3.25	3.19	Passed
Rotenone.....	1.00	0.81	
Pyrethrins	0.10	0.17	
Sulfur	10.00	10.64	
Zinc ethylene bisdithiocarbamate....	3.25	3.21	

ROTENONE-SULFUR

Daly-Herring Company

Dee Aitch Rotenone Sulfur Dust

Rotenone.....	1.00	0.82	Passed
Sulfur	15.00	14.69	
Rotenone.....	1.00	0.90	Passed
Sulfur	15.00	15.09	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Farmers Cooperative Exchange, Inc.			
FCX Cattle Grub and Louse Powder			
Rotenone.....	1.60	1.17	Deficient
Sulfur	45.00	42.06	
Rotenone.....	1.60	1.33	Deficient
Sulfur	45.00	38.87	
Rotenone.....	1.60	1.26	Deficient
Sulfur	45.00	43.51	
Rotenone.....	1.60	1.51	Deficient
Sulfur	45.00	41.99	

Graham Chemical Company

Graham's Red Star Agricultural Rotenone Dust

Rotenone.....	1.00	1.12	Deficient
Sulfur	15.00	13.54	
Rotenone.....	1.00	1.07	Passed
Sulfur	15.00	16.36	
Rotenone.....	1.00	1.06	Passed
Sulfur	15.00	15.63	
Rotenone.....	1.00	0.82	Passed
Sulfur	15.00	14.87	
Rotenone.....	1.00	0.97	Passed
Sulfur	15.00	14.73	
Rotenone.....	1.00	0.94	Passed
Sulfur	15.00	15.47	
Rotenone.....	1.00	0.80	Passed
Sulfur	15.00	15.05	
Rotenone.....	1.00	1.05	Passed
Sulfur	15.00	16.46	
Rotenone.....	1.00	1.04	Passed
Sulfur	15.00	16.72	
Rotenone.....	1.00	1.10	Passed
Sulfur	15.00	14.97	
Rotenone.....	1.00	0.99	Passed
Sulfur	15.00	16.02	
Rotenone.....	1.00	0.89	Passed
Sulfur	15.00	16.63	
Rotenone.....	1.00	1.08	Passed
Sulfur	15.00	16.66	

J. M. Harris and Company, Inc.

Blue Dragon Dust

Rotenone.....	0.75	0.64	Passed
Sulfur	10.00	10.30	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Blue Dragon Dust (Continued)			
Rotenone.....	0.75	0.63	Passed
Sulfur	10.00	10.37	
Rotenone.....	0.75	0.58	Passed
Sulfur	10.00	10.47	
Rotenone.....	0.75	0.68	Passed
Sulfur	10.00	10.48	
Rotenone.....	0.75	0.74	Passed
Sulfur	10.00	9.94	
Rotenone.....	0.75	0.83	Passed
Sulfur	10.00	9.86	
Rotenone.....	0.75	0.59	Passed
Sulfur	10.00	10.47	
Super 1 % Rotenone Dragon Dust			
Rotenone.....	1.00	1.03	Passed
Sulfur	10.00	10.44	
Rotenone.....	1.00	0.82	Passed
Sulfur	10.00	10.40	
Maxwell Insecticide Company, Inc.			
Maxwell's 1 % Rotenone Dust			
Rotenone.....	1.00	0.90	Passed
Sulfur	15.00	14.66	
Rotenone.....	1.00	0.87	Passed
Sulfur	15.00	14.88	
Rotenone.....	1.00	0.87	Passed
Sulfur	15.00	14.83	
Rotenone.....	1.00	0.97	Passed
Sulfur	15.00	14.25	
Rotenone.....	1.00	0.80	Passed
Sulfur	15.00	14.28	
Rotenone.....	1.00	0.91	Passed
Sulfur	15.00	14.87	
Rotenone.....	1.00	1.16	Passed
Sulfur	15.00	15.30	
Rotenone.....	1.00	1.00	Deficient
Sulfur	15.00	13.73	
Rotenone.....	1.00	0.82	Deficient
Sulfur	15.00	13.12	
Maxwell Cattle Grub and Louse Powder			
Rotenone.....	1.50	1.18	Deficient
Sulfur	65.00	62.31	
Rotenone.....	1.50	1.14	Deficient
Sulfur	65.00	59.14	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Maxwell Cattle Grub and Louse Powder (Continued)			
Rotenone.....	1.50	1.57	Passed
Sulfur	65.00	61.82	
Rotenone	1.50	1.81	Passed
Sulfur	65.00	63.94	
Rotenone	1.50	1.78	Passed
Sulfur	65.00	63.41	
W. R. Peele Company, Inc.			
Pelco 1 % Rotenone Dust			
Rotenone.....	1.00	1.14	Deficient
Sulfur	15.00	13.04	
Rotenone	1.00	0.82	Passed
Sulfur	15.00	14.89	
Rotenone	1.00	0.86	Passed
Sulfur	15.00	15.79	
Rotenone	1.00	0.96	Passed
Sulfur	15.00	15.05	
Rotenone	1.00	0.82	Passed
Sulfur	15.00	15.36	
Ralston Purina Company			
Purina Grub Killer			
Rotenone	1.67	1.25	Deficient
Sulfur	50.00	44.38	
Sam Houston Company			
Houston's Rotenone Sulfur Talc			
Rotenone	0.75	0.61	Passed
Sulfur	10.00	10.59	
Wyatt-Quarles Seed Company			
Wyatt-Quarles 1 % Rotenone Dust			
Rotenone	1.00	0.83	Passed
Sulfur	15.00	14.76	
Rotenone	1.00	0.98	Passed
Sulfur	15.00	15.62	
ROTENONE-ZINEB			
Sears, Roebuck and Company			
Cross Country Three Way Garden Spray			
Rotenone.....	1.50	0.83	Deficient
Zinc ethylene bisdithiocarbamate....	9.70	8.44	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
ROTENONE-ZIRAM-SULFUR			
Swift and Company Agricultural Chemical Division			
End-O-Pest 3-Way Garden Defense			
Rotenone	1.25	0.88	Deficient
Zinc dimethyl dithiocarbamate.....	4.00	4.00	
Sulfur	15.00	14.82	
SABADILLA			
Carolina Chemicals, Inc.			
Flight Brand 20 % Ground Sabadilla Seed			
Sabadilla alkaloids.....	0.80	0.85	Passed
Daly-Herring Company			
Dee Aitch 20 % Sabadilla Dust			
Sabadilla alkaloids.....	0.80	0.63	Deficient
do	0.80	0.70	Deficient
Graham Chemical Company			
Graham's Red Star Agricultural Sabadilla			
Sabadilla alkaloids.....	0.80	0.94	Passed
J. M. Harris and Company, Inc.			
Dragon Sabadilla Dust			
Sabadilla alkaloids.....	0.80	1.02	Passed
do	0.80	0.86	Passed
Maxwell Insecticide Company, Inc.			
Maxwell 20 % Sabadilla Dust			
Sabadilla alkaloids.....	0.80	0.80	Passed
do	0.80	0.78	Passed
do	0.80	0.81	Passed
do	0.80	0.77	Passed
Pearson and Company			
Red Devil Dust			
Sabadilla alkaloids.....	0.80	0.67	Deficient
W. R. Peele Company, Inc.			
Pelco 20 % Sabadilla Dust			
Sabadilla alkaloids.....	0.80	0.80	Passed
do	0.80	0.82	Passed
Sabadilla alkaloids.....	0.80	0.96	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Quality Chemical Corp. (Now: Carolina Chemical Corp.)			
Sabadilla 20% Dust			
Sabadilla alkaloids.....	0.88	0.75	Deficient
do	0.88	0.65	Deficient
do	0.88	1.02	Passed
Taylor Chemical Company			
Superkill 20% Sabadilla Dust			
Sabadilla alkaloids.....	0.80	1.08	Passed
SABADILLA-SULFUR			
Southern Agricultural Chemicals, Inc.			
Royal Brand Saba Dust 20			
Sabadilla alkaloids.....	0.60	0.45	Deficient
Sulfur	15.00	14.60	Not Registered
SEVIN			
California Chemical Company-Ortho Div.			
Ortho Sevin Bean Dust			
Sevin (1-naphthyl N-methyl carba- mate)	1.75	1.73	Passed
do	1.75	1.83	Passed
Ortho Sevin 7.5 Dust			
Sevin (1-naphthyl N-methyl carba- mate)	7.50	7.39	Passed
Ortho Sevin 10 Dust			
Sevin (1-naphthyl N-methyl carba- mate)	10.00	9.94	Passed
California Spray-Chemical Corp. (Now: California Chemical Company-Ortho Div.)			
Ortho Sevin 50 Wettable			
Sevin (1-naphthyl N-methyl carba- mate)	50.00	52.49	Passed
Carolina Chemicals, Inc.			
Flight Brand 7½ % Sevin Dust			
Sevin (1-naphthyl N-methyl carba- mate)	7.50	8.04	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Farmers Cooperative Exchange, Inc.			
FCX "7" Dust			
Sevin (1-naphthyl N-methyl carba- mate)	1.75	2.02	Passed
W. R. Grace and Company			
Davison Chemical Division			
Naco 1 $\frac{3}{4}$ % Sevin Dust			
Sevin (1-naphthyl N-methyl carba- mate)	1.75	1.84	Passed
do	1.75	1.80	Passed
Naco 7 $\frac{1}{2}$ % Sevin Dust			
Sevin (1-naphthyl N-methyl carba- mate)	7.50	8.10	Passed
Naco 10 % Sevin Cotton Dust			
Sevin (1-naphthyl N-methyl carba- mate)	10.00	9.71	Passed
Niagara Chemical Division			
Food Machinery and Chemical Corp.			
Niagara Sevin 5 Dust			
Sevin (1-naphthyl N-methyl carba- mate)	5.00	5.28	Passed
Planters Chemical Corp.			
Planters 10 % Sevin Dust			
Sevin (1-naphthyl N-methyl carba- mate)	10.00	11.76	Passed
Stauffer Chemical Company			
Sevin 5 Dust			
Sevin (1-naphthyl N-methyl carba- mate)	5.00	5.62	Passed
Taylor Chemical Company			
Superkill 1 $\frac{3}{4}$ % Sevin Dust			
Sevin (1-naphthyl N-methyl carba- mate)	1.75	2.81	Excessive Active Ingredient
do	1.75	1.82	Passed
do	1.75	1.74	Passed
do	1.75	1.89	Passed
Superkill Flea and Tick Powder			
Sevin (1-naphthyl N-methyl carba- mate)	5.00	5.33	Passed
do	5.00	5.31	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Superkill 7½ % Sevin Dust			
Sevin (1-naphthyl N-methyl carba- mate)	7.50	8.74	Passed
do	7.50	9.23	Passed
Superkill 10% Sevin Dust			
Sevin (1-naphthyl N-methyl carba- mate)	10.00	10.28	Passed
Union Carbide Chemical Company (Now: Union Carbide Corp.)			
Crag Brand Sevin Sprayable Insecticide			
Sevin (1-naphthyl N-methyl carba- mate)	80.00	82.55	Passed
Woolfolk Chemical Works, Ltd.			
Security Brand Sevin Bean Dust			
Sevin (1-naphthyl N-methyl carba- mate)	1.75	1.66	Deficient
do	1.75	1.66	Deficient
do	1.75	1.56	Deficient
do	1.75	1.87	Passed
do	1.75	1.87	Passed
do	1.75	1.69	Passed
Security Brand 5% Sevin Garden Dust			
Sevin (1-naphthyl N-methyl carba- mate)	5.00	5.19	Passed
Security Brand 7½ % Sevin Cotton Dust			
Sevin (1-naphthyl N-methyl carba- mate)	7.50	7.28	Passed
Security Brand 10% Sevin Cotton Dust			
Sevin (1-naphthyl N-methyl carba- mate)	10.00	11.66	Passed

SEVIN-SULFUR**California Chemical Company-Ortho Div.****Ortho Custom Mixture**

Sevin (1-naphthyl N-methyl carba- mate)	1.75	2.29	Passed
Sulfur	60.00	64.00	
Sevin (1-naphthyl N-methyl carba- mate)	1.75	1.88	Passed
Sulfur	60.00	57.62	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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W. R. Grace and Company
Davison Chemical Division

Naco Sevin with Sulfur

Sevin (1-naphthyl N-methyl carba- mate)	1.75	2.01	Passed
Sulfur	50.00	49.45	

Mike, Inc.

101 Brand Sevin Bean Dust

Sevin (1-naphthyl N-methyl carba- mate)	1.75	1.80	Passed
Sulfur	18.00	18.05	

SEVIN-ZINEB

Planters Chemical Corp.

Planters Sevin Garden Dust

Sevin (1-naphthyl N-methyl carba- mate)	5.00	5.08	Passed
Zineb ((Zinc ethylene bisdithiocar- bamate)	3.90	4.02	

SILVEX COMPOUNDS

California Spray-Chemical Corp.

(Now: California Chemical Company-Ortho Div.)

Ortho Chick Weed and Clover Killer

Iso octyl ester of 2-(2,4,5-trichloro- phenoxy) propionic acid.....	13.80	18.63	Passed
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O. M. Scott and Sons Company

Kansel

Propylene glycol butyl ether ester of 2-(2,4,5-trichlorophenoxy) propi- onic acid	2.70	4.00	Passed
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THALLIUM SULFATE

Arnott Chemical and Exterminating Company

Arnco Poison P-Nuts

Thallium sulfate.....	1.00	1.10	Passed
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O. E. Linck Company, Inc.

Tat Mo-Go

Thallium Sulfate.....	1.00	1.07	Passed
do	1.00	0.95	Passed
do	1.00	0.97	Passed
do	1.00	1.23	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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THIODAN**Olin Mathieson Chemical Corp.**

Mathieson Thiodan 3% Dust

Hexachloro hexahydro methano 2,4,3 benzodioxathiepin oxide....	3.00	3.30	Passed
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Mathieson Thiodan 2 lbs. Emulsifiable

Hexachloro hexahydro methano 2,4,3 benzoxathiepin oxide.....	24.00	24.07	Passed
do	24.00	24.93	Passed
do	24.00	25.50	Passed
do	24.00	23.04	Passed

Niagara Chemical Division**Food Machinery and Chemical Corp.**

Niagara Thiodan Miscible

Hexachloro hexahydro methano 2,4,3 benzodioxathiepin oxide....	24.00	25.32	Passed
do	24.00	24.05	Passed
do	24.00	25.40	Passed

THIODAN-PARATHION**Niagara Chemical Division****Food Machinery and Chemical Corp.**

Thiodan 3 Parathion 1 Tobacco Dust

Hexachloro hexahydro methano 2,4,3 benzoxathiepin oxide.....	3.00	3.26	Passed
Parathion.....	1.00	1.25	

TOXAPHENE**Atlas Agricultural Chemicals, Inc.**

Atlas 20-0 Toxaphene

Toxaphene.....	20.00	18.86	Deficient
do	20.00	19.14	Passed

California Chemical Company-Ortho Div.

Ortho Toxaphene 20 Dust

Toxaphene.....	20.00	20.57	Passed
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Carter Insecticide and Chemical Company, Inc.

Carolina Brand Toxaphene Emulsion Concentrate

Toxaphene.....	60.00	60.76	Passed
do	60.00	61.23	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Coastal Chemical Corp.			
Toxaphene Emulsion			
Toxaphene.....	60.40	60.76	Passed
Daly-Herring Company			
Dee Aitch 20 % Toxaphene Cotton Dust			
Toxaphene.....	20.00	21.43	Passed
Dee Aitch 60 % Toxaphene Emulsifiable Concentrate			
Toxaphene.....	60.40	62.26	Passed
do	60.40	60.20	Passed
Farmers Cooperative Exchange, Inc.			
FCX 20-0 Toxaphene			
Toxaphene.....	20.00	20.14	Passed
FCX Toxaphene Emulsion Concentrate			
Toxaphene.....	60.00	62.45	Passed
GurMiCo Chemicals, Inc.			
GurMiCo Toxaphene 60 % Emulsion			
Toxaphene.....	60.00	57.58	Passed
do	60.00	55.73	Deficient
do	60.00	60.85	Passed
Maxwell Insecticide Company, Inc.			
Maxwell Toxaphene Emulsion 60			
Toxaphene.....	60.40	59.51	Passed
do	60.40	63.37	Passed
Molony Fertilizer Company			
Lightning Brand 20-0 Toxaphene Cotton Dust			
Toxaphene.....	20.00	20.00	Passed
Lightning Brand Toxaphene Emulsible Concentrate			
Toxaphene.....	60.00	57.71	Passed
Olin Mathieson Chemical Corp.			
Mathieson "20" Dust			
Toxaphene.....	20.00	20.43	Passed
Mathieson Toxaphene 6 lbs. Emulsifiable Liquid			
Toxaphene.....	58.80	61.52	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
W. R. Peele Company, Inc.			
Pelco 20 % Toxaphene Dust			
Toxaphene.....	20.00	21.96	Passed
Pelco Toxaphene 60-E. C.			
Toxaphene.....	57.50	61.77	Passed
Planters Chemical Corp.			
Planters Toxaphene 6 lbs. Emulsion Concentrate			
Toxaphene.....	60.00	59.40	Passed
Planters Toxaphene 6 lbs. Emulsion Concentrate			
Toxaphene.....	60.20	59.04	Passed
Quality Chemical Corp.			
(Now: Carolina Chemical Corp.)			
Toxaphene Emulsible Concentrate			
Toxaphene.....	59.00	57.91	Passed
do	59.00	60.82	Passed
Swift and Company			
Agricultural Chemical Division			
Swift's Gold Bear Insecticide Dust V2			
Toxaphene.....	20.00	20.43	Passed
Swift's Gold Bear Toxaphene V 6E			
Toxaphene.....	56.40	52.92	Deficient
Taylor Chemical Company			
Superkill 20 % Toxaphene (without Sulfur)			
Cotton Dust			
Toxaphene.....	20.00	22.28	Passed
do	20.00	20.14	Passed
do	20.00	20.86	Passed
do	20.00	19.99	Passed
Superkill 60 % Toxaphene Emulsifiable Concentrate			
Toxaphene.....	60.00	60.30	Passed
United Cooperatives, Inc.			
(Registered by—Farmers Cooperative Exchange, Inc.)			
Unico Toxaphene Emulsion Concentrate			
Toxaphene.....	60.00	58.83	Passed
do	60.00	60.86	Passed
do	60.00	61.13	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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Woolfolk Chemical Works, Ltd.

Security Brand Toxaphene 20% Dust

Toxaphene.....	20.00	20.29	Passed
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**TOXAPHENE-BENZOYL CHLORIDE-DIELDRIN-
NICOTINE ALKALOID-NICOTINE SULFATE****Animal Repellents, Inc.**

Snake Stop

Toxaphene.....	3.20		Passed
Benzoyl chloride.....	1.80		
Dieldrin.....	3.20		
Nicotine alkaloid.....	0.90		
Nicotine sulfate.....	0.90		
Theoretical chlorine.....	5.11	5.75	
Theoretical nicotine.....	1.59	1.99	

TOXAPHENE-CHLORDANE**Southern Agricultural Insecticides, Inc.**

SA-50 Brand Cut Worm and Mole Cricket Bait

Toxaphene.....	2.00		Passed
Chlordane.....	1.50		
Theoretical chlorine.....	2.30	3.59	

TOXAPHENE-DDT**Acme Fertilizer Company**

Acme 14% Toxaphene 7% DDT

Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	13.04	

California Chemical Company-Ortho Div.

Ortho Toxaphene-DDT 14-7 Dust

Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	12.54	
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	12.77	
Toxaphene.....	14.00		Passed
DDT.....	7.00		
Theoretical chlorine.....	12.88	13.58	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Cape Fear Chemicals, Inc.			
Tiger Brand 7-14 DDT-Toxaphene Dust			
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.13	
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	12.41	
Tiger Brand DDT-Toxaphene 2-4 Emulsifiable			
Toxaphene.....	39.50		Not Registered
DDT	19.70		
Theoretical chlorine.....	36.32	35.76	
Carolina Chemicals, Inc.			
Flight Brand Toxaphene-DDT Dust 14-7			
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.43	
Carter Insecticide and Chemical Company, Inc.			
Carolina Brand Toxaphene-DDT Cotton Dust 14-7			
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.13	
Carolina Brand Toxaphene-DDT 40-20 Emul- sifiable Concentrate			
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	36.87	
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	36.36	
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	35.22	
Coastal Chemical Corp.			
40% Toxaphene 20% DDT			
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	38.03	
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	38.14	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Daly-Herring Company			
Dee Aitch 40 % Toxaphene-20 % DDT Emul- sifiable Concentrate			
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	37.65	
Toxaphene.....	40.00		Deficient
DDT	20.00		
Theoretical chlorine.....	36.80	31.70	
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	37.39	
Farmers Cooperative Exchange, Inc.			
FCX 14-7 Dust			
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.31	
FCX "42" Cotton Spray			
Toxaphene.....	38.70		Passed
DDT	19.30		
Theoretical chlorine.....	35.58	36.98	
Toxaphene.....	38.70		Passed
DDT	19.30		
Theoretical chlorine.....	35.58	36.34	
W. R. Grace and Company			
Davison Chemical Division			
Naco Toxaphene-DDT Cotton Dust 14-7 Formula			
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.21	
Maxwell Insecticide Company, Inc.			
Maxwell Toxaphene-DDT Dust			
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.39	
Maxwell Toxaphene-DDT Emulsion 4-2			
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	38.30	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Niagara Chemical Division			
Food Machinery and Chemical Corp.			
Niagara DDT 7 Toxaphene 14 Dust			
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.82	
Olin Mathieson Chemical Corp.			
Mathieson Toxaphene 14-DDT 7 Dust			
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.13	
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.57	
W. R. Peele Company, Inc.			
Pelco 14-7 Toxaphene DDT Dust			
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.75	
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.66	
Pelco Toxaphene DDT Emulsion Concentrate			
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	36.31	
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	35.87	
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	37.16	
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	36.59	
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	36.45	
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	36.42	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Planters Chemical Corp.			
Planters Toxaphene-DDT Emulsion Concentrate			
Toxaphene.....	40.00	37.15	Passed
DDT	20.00		
Theoretical chlorine.....	36.80		
Toxaphene.....	40.00	37.20	Passed
DDT	20.00		
Theoretical chlorine.....	36.80		
Toxaphene.....	40.00	36.63	Passed
DDT	20.00		
Theoretical chlorine.....	36.80		
Toxaphene.....	40.00	37.05	Passed
DDT	20.00		
Theoretical chlorine.....	36.80		
Quality Chemical Corp.			
(Now: Carolina Chemical Corp.)			
Cotton Special 14 % Toxaphene 7 % DDT Dust			
Toxaphene.....	14.00	13.04	Passed
DDT	7.00		
Theoretical chlorine.....	12.88		
Swift and Company			
Agricultural Chemical Division			
Swift's Gold Bear VD 147D Cotton Dust 14 % Toxaphene-7 % DDT			
Toxaphene.....	14.00	12.86	Passed
DDT	7.00		
Theoretical chlorine.....	12.88		
Swift's Gold Bear Toxaphene-DDT-VD42E			
Toxaphene.....	38.80	34.15	Passed
DDT	19.50		
Theoretical chlorine.....	35.62		
Swift's Gold Bear Toxaphene-DDT Emulsi- fiable VD42E			
Toxaphene.....	40.00	35.31	Passed
DDT	20.00		
Theoretical chlorine.....	36.80		
Taylor Chemical Company			
Superkill 14 % Toxaphene 7 % DDT Dust			
Toxaphene.....	14.00	12.86	Passed
DDT	7.00		
Theoretical chlorine.....	12.88		
Toxaphene.....	14.00	12.95	Passed
DDT	7.00		
Theoretical chlorine.....	12.88		

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Superkill 14% Toxaphene 7% DDT Dust (Continued)			
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	12.95	
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.40	
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	12.49	
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	12.35	
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.48	
Superkill 4:2 Toxaphene-DDT			
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	36.91	
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	38.61	
Toxaphene.....	40.00		Passed
DDT	20.00		
Theoretical chlorine.....	36.80	37.94	
United Cooperatives, Inc.			
(Registered by—Farmers Cooperative Exchange, Inc.)			
Unico 42 Cotton Spray			
Toxaphene.....	38.70		Passed
DDT	19.30		
Theoretical chlorine.....	35.58	36.78	
Woolfolk Chemical Works, Ltd.			
Security Brand Toxaphene-DDT 2-1 Dust			
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	13.22	
Toxaphene.....	14.00		Passed
DDT	7.00		
Theoretical chlorine.....	12.88	12.95	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
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TOXAPHENE-DDT-PARATHION**Farmers Cooperative Exchange, Inc.****FCX Ten Five One Dust**

Toxaphene.....	10.00		Passed
DDT	5.00		
Parathion.....	1.00	1.68	
Theoretical chlorine.....	9.20	8.87	

Niagara Chemical Division**Food Machinery and Chemical Corp.****Niagara Nyamite Dust**

Toxaphene.....	10.00		Passed
DDT	9.00		
Parathion.....	1.20	1.36	
Theoretical chlorine.....	11.20	11.37	

W. R. Peele Company, Inc.**Pelco 14-7-1 Toxaphene DDT Parathion Dust**

Toxaphene.....	14.00		Deficient
DDT	7.00		
Parathion.....	1.00	0.90	
Theoretical chlorine.....	12.88	13.34	

TOXAPHENE-PARATHION**California Spray-Chemical Corp.****(Now: California Chemical Company-Ortho Div.)****Ortho Parathion Toxaphene 2-10 Dust**

Toxaphene.....	10.00	9.43	Deficient
Parathion.....	2.00	1.86	

W. R. Grace and Company**Davison Chemical Division****Naco Parathion and Toxaphene Dust**

Toxaphene.....	10.00	10.29	Passed
Parathion.....	2.00	2.04	

Mike, Inc.**101 Brand Pre-Head Cabbage Dust**

Toxaphene.....	10.00	9.00	Deficient
Parathion.....	1.50	1.77	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Southern Agricultural Insecticides, Inc.			
SA-50 Brand Pre Heading Cabbage Dust			
Toxaphene.....	10.00	10.43	Passed
Parathion.....	1.50	1.59	
Toxaphene.....	10.00	11.42	Passed
Parathion.....	1.50	1.58	
Toxaphene.....	10.00	11.28	Passed
Parathion.....	1.50	1.69	
Toxaphene.....	10.00	10.57	Passed
Parathion.....	1.50	1.81	
Toxaphene.....	10.00	10.29	Passed
Parathion.....	1.50	1.55	
Toxaphene.....	10.00	10.14	Passed
Parathion.....	1.50	1.94	
Toxaphene.....	10.00	10.57	Passed
Parathion.....	1.50	2.03	
Toxaphene.....	10.00	10.65	Passed
Parathion.....	1.50	1.85	
Toxaphene.....	10.00	10.71	Passed
Parathion.....	1.50	1.83	
Toxaphene.....	10.00	10.57	Passed
Parathion.....	1.50	2.24	
Toxaphene.....	10.00	10.78	Passed
Parathion.....	1.50	2.04	
Toxaphene.....	10.00	10.29	Passed
Parathion.....	1.50	2.14	
Toxaphene.....	10.00	10.57	Passed
Parathion.....	1.50	1.90	
Toxaphene.....	10.00	10.57	Passed
Parathion.....	1.50	2.04	
Toxaphene.....	10.00	10.21	Passed
Parathion.....	1.50	1.97	
Toxaphene.....	10.00	10.71	Passed
Parathion.....	1.50	1.62	
Toxaphene.....	10.00	10.99	Passed
Parathion.....	1.50	1.79	
Toxaphene.....	10.00	10.92	Passed
Parathion.....	1.50	1.97	
Toxaphene.....	10.00	11.00	Passed
Parathion.....	1.50	1.83	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
SA-50 Brand Pre Head Dust 2-20			
Toxaphene.....	20.00	21.58	Passed
Parathion.....	2.00	2.09	
Toxaphene.....	20.00	20.86	Passed
Parathion.....	2.00	1.97	
Toxaphene.....	20.00	19.29	Passed
Parathion.....	2.00	2.03	
Toxaphene.....	20.00	20.29	Passed
Parathion.....	2.00	2.15	
Toxaphene.....	20.00	19.71	Passed
Parathion.....	2.00	2.15	
Toxaphene.....	20.00	20.72	Passed
Parathion.....	2.00	2.08	
Toxaphene.....	20.00	20.57	Passed
Parathion.....	2.00	2.42	
Toxaphene.....	20.00	20.14	Passed
Parathion.....	2.00	2.49	
Toxaphene.....	20.00	21.29	Passed
Parathion.....	2.00	2.37	
Toxaphene.....	20.00	20.57	Passed
Parathion.....	2.00	2.28	
Toxaphene.....	20.00	19.99	Passed
Parathion.....	2.00	2.41	
Toxaphene.....	20.00	20.85	Passed
Parathion.....	2.00	2.08	
Toxaphene.....	20.00	20.99	Passed
Parathion.....	2.00	2.15	
Toxaphene.....	20.00	19.72	Passed
Parathion.....	2.00	2.29	
Toxaphene.....	20.00	20.72	Passed
Parathion.....	2.00	2.25	

WARFARIN**Black Leaf Products Company**

Warf Pellets

Warfarin	0.025	0.024	Passed
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Carolina Feed Store

Carolina's Rat Bait

Warfarin	0.025	0.024	Passed
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Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Farmers Cooperative Exchange, Inc.			
FCX Warfarin			
Warfarin	0.025	0.025	Passed
FCX Warfarin Ready to Use Pellets			
Warfarin	0.025	0.028	Passed
Getum Manufacturing Company, Inc.			
Getum Rat and Mouse Bait			
Warfarin	0.025	0.025	Passed
The Master Products Company			
Rat Buster			
Warfarin	0.025	0.024	Passed
ZINEB			
California Spray-Chemical Corp.			
(Now: California Chemical Company-Ortho Div.)			
Ortho Zineb Wettable			
Zinc ethylene bisdithiocarbamate....	75.00	80.58	Passed
Daly-Herring Company			
Dee Aitch 10% Dithane Dust			
Zinc ethylene bisdithiocarbamate....	6.50	6.97	Passed
MISCELLANEOUS INORGANIC			
California Chemical Company-Ortho Div.			
Orthorix Spray			
Calcium polysulphide.....	26.00	25.14	Passed
Nott Manufacturing Company, Inc.			
Crab-Not Crab Grass Killer			
Potassium cyanate.....	86.00	87.87	Not Registered
United Cooperatives, Inc.			
(Registered by—Farmers Cooperative Exchange, Inc.)			
Unico Kleen Walk Granules			
Sodium chlorate.....	40.00	38.30	Passed
Sodium metaborate.....	51.00	51.25	
Monruon	2.40	3.15	

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
Whitmoyer Laboratories, Inc.			
Whitmoyer Carbon Bisulphide			
Carbon bisulphide.....	....	99.67	Misbranded
MISCELLANEOUS ORGANIC			
Acme Quality Paints, Inc.			
Acme Garden Fungicide			
Captan.....	30.00	32.57	Passed
Capryl.....	2.70		
Other nitro phenols and derivatives..	0.30		
Theoretical nitrogen.....	1.62	1.74	
Boyle-Midway, Inc.			
Black Flag Moth-Ded			
Terpene polychlorinates.....	5.00		Deficient
Paradichlorobenzene.....	5.00		
Theoretical chlorine.....	5.71	3.59	
California Spray-Chemical Corp.			
(Now: California Chemical Company-Ortho Div.)			
Ortho Rose and Garden Fungicide			
Phaltan (N trichloromethyl thiop- thamide).....	75.00	76.65	Passed
Carajon Chemical Company, Inc.			
Force's Ro-Dex			
Strychnine alkaloid.....	0.50	0.46	Passed
Chemagro Corp.			
Guthion Cotton Insecticide			
Guthion [O, O-Dimethyl S-4-oxo- 1,2,3-benzotriazin-3 (4H)-ylm- ethyl phosphorodithioate]	23.60	24.99	Passed
Click Chemical Corp.			
Click Moth Balls			
Naphthalene	100.00	97.33	Passed
Diamond Black Leaf Products Company			
(Now: Black Leaf Products Company)			
Black Leaf 40			
Nicotine alkaloid.....	40.00	41.68	Passed

Manufacturers and Brands	Guaranteed Per Cent	Found Per Cent	Decisions
National Hog Medicine Company			
National Creso Dip			
Phenols	18.00	11.47	Deficient
Ralston Purina Company			
Purina Insect Oil Concentrate			
Pentachlorophenol	30.70		Passed
Chloro o-phenyl phenol.....	5.00		
Other chlorophenols.....	4.40		
Total chlorine.....	25.35	25.66	
United Cooperatives, Inc.			
(Registered by—Farmers Cooperative Exchange, Inc.)			
Unico No. 3 Estate Milcide			
Capryl	5.40		Passed
Other nitro phenols and derivatives..	0.60		
Theoretical nitrogen.....	0.461	0.650	

